

Fiber Testing Instruments

They are used for testing fiber,

such as Cotton, Wool, Silk, Jute, man-made fiber, etc.

to determine physical properties of many kinds of fibers,

such as fiber content, fiber fineness, fiber length, and tension strength...

TB300 Fiber Fineness & Content Analyser

Fiber composition (Qualitative) and content (Quantitative) analysis is a necessary test item for every laboratory and most cotton mills, cloth factories and garment factories. Currently, the detection methods commonly used are dissolution and combustion.

It will be a easy task to distinguish with the microscope natural fibers for they are structurally stable, differ in their longitudinal and cross-sectional morphological features. It is the same for chemical fibers; TB300 aims to make a quantitative analysis of the fibers by intercepting the points from the longitudinal or cross-sectional projection. The operation is simple, but the projection interface is clear, and the probability of error is low; moreover, this method has no pollution and does not cause any harm to the human body; TB300 will promise high working efficiency and save time and cost.

Fiber Fineness & Content Analyser, is used to determine the fineness of fiber and analyze the content and surface features of animal fiber, vegetable fibers and mineral fibers, such as cotton, wool, man-made fiber, etc.

Note: A customized PC is needed for this instrument.

Models & Standards

- TB300A Fiber Fineness Analyser ISO 137
- TB300B Fiber Fineness & Content Analyser ISO 137, ISO 17751-1
- TB300C Fiber Fineness & Content Analyser AATCC 20/20A, ISO 137, ISO 17751-1

TB400C Single Fiber Strength Tester

Single Fiber Strength Tester, is used to test the tension strength and elongation of chemical fiber, cotton, wool, ramie, silk, glass fiber, fine metallic thread, etc.

Features

- Real-time display testing result and settings
- Force unit: N, kgf, lbf, cN
- High accuracy and fast response
- Easy to load and unload specimen

Specifications

ope		
•	Maximum load test	600cN
•	Measuring accuracy	≤±1% (F.S)
•	Resolution	0.01cN
•	Max Elongation range	≤140 mm
•	Elongation resolution	0.01mm
•	Lower clamping device descent speed	1~200mm/min (adjustable)
•	Lowering speed accuracy	≤ 1%
•	Lower clamping device rise speed	100mm/min

Standards ISO 5079, GB/T 14337



Power	220 / 110 V	50 / 60 Hz
G.Weight	65 kg	
P.Dimensions	600 x 480 x 1	030 mm (L x W x H)



Power	220 / 110 V	50 / 60 Hz
G.Weight	45 kg	
P.Dimensions	520 x 480 x 82	20 mm (L x W x H)

TB500 Cotton Trash Analyzer

Cotton Trash Analyzer, is to analyze lint, trash and dust content within a sample of raw cotton fiber up to 100 grams. Also it is used to determine non-fiber content of synthetic fibers and to open and clean fibers for further testing. The analyzer uses the carding principle with air separation of lint and non-lint content.

Specifications

Standards

•	Working width	490 mm
•	Size of feeding roller	Dia.57.15
•	Size of licker-in	Dia. 238 mm
•	Rotation speed	900 r/min

GB/T 6499

Power	380 / 220 V	50 / 60 Hz	0.8 Kw
G.Weight	309 kg		
P.Dimensions	1120 x 840 x 3	1130 mm (L x	W x H)



TB510A Saw Gin Portable

Saw Gin Portable is used for separating seed cotton. After ginning, cotton fiber with trash, leaf, dust, etc. is collected, and cottonseed with a little clean lint is collected in another container.

This lab type saw gin is portable and can be conveniently used for trial ginning and as the pre-process of cotton trash analyzer at cotton collecting point and plant, laboratory only. It is just for lab use, not able to run for a long time as a production equipment.

Specifications

- High efficiency cleaning unit and feeding roller, running is stable and reliable
- Totally closed shield ensures safe operation
- Available for lightest and smallest model
- Saw 8pcs

Standards JB-T 7884.1

Power	220 / 110 V	50 / 60 Hz	0.28 kW
G.Weight	22 kg		
P.Dimensions	450 x 310 x 48	30 mm (L x W	x H)

TB510B Saw Gin Floor-type

Saw Gin Floor-type is used for separating seed cotton. After ginning, cotton fiber with trash, leaf, dust, etc. is collected, and cottonseed with a little clean lint is collected in another container.

This lab model gin is conveniently used for trial ginning and as the pre-process of cotton trash analyzer at cotton collecting point and plant, laboratory, etc.

Specifications

- High efficiency cleaning unit and feeding roller, running is stable and reliable
- Simple driving system, low impact, low noise
- Safe operation and power saving
- Can be placed on study ground at work
- Work capacity 300 kg/h
- Saw 20pcs

Standards	JB-T 7884.1
Juliualus	JD-1 /004.1

 Power
 220 V / 380 V
 50 Hz

 G.Weight
 374 kg

 P.Dimensions
 1600 x 1100 x 1490 mm (L x W x H)





TB510C Roller Gin Lab-type

Roller Gin Lab-type, used for cotton research labs, or low production of small and medium sized cotton factories to separate cotton fiber from seed cotton.

Specifications

- Roller size Dia. 120 mm, length 205 mm •
- Roller rotation speed 88 rpm •
- Crankshaft rotation speed 800 rpm
- Cotton yield >/= Raw cotton yield (According to cotton grade) • 1400 rpm
- Rotation speed • 4-7kgf
- Pressure of roller

220 / 110 V 50 / 60 Hz 370 W Power G.Weight 69 kg 550 x 540 x 910 mm (L x W x H) P.Dimensions





Yarn Testing Instruments

They are used for the testing of yarn,

to determine the physical properties of many kinds of fibers,

such as yarn count, twist, moisture, elongation and breaking forces...

TY360A/B Wrap Reel

Wrap Reel, is to produce skeins of yarn of a pre-determined length and number of turns for count and strength testing. 1 Meter, 36" or 54" circumference collapsible swift (specify). Wrap reel is completed with yarn package stand and pre-tension device, and fitted with pre-determined counter.

adjustable

35 mm

60 mm

variable

1 ~ 9,999 ad adjustable

Specifications

- Circumference of winch
 - TY360A 1000 ±1 mm TY360B 54 ± 1/16 inch
- Number of wraps Pre-tension .
- Traveling reciprocating distance •
- Spacing of spindles
- Reel speed •

Standards

ISO 2060, ASTM D1907 Method1, GB/T 4743, GB/T 14343, GB/T 6838

210 g

0.001 g

0.004 g

200 g



Power	220 / 110 V	50 / 60 Hz
G.Weight	68 kg, 75 kg	
P.Dimension		x 680 mm (L x W x H) x 740 mm (L x W x H)

TY361 Yarn Count Tester

Yarn Count Tester, with automatically calculating yarn count systems, is used for sliver, roving, yarn and fabric. Yarn Count Tester consists of an accurate electronic balance and a built-in calculating program.

Specifications

Mini printer

- Tare function •
- Overload alarm
- Capacity
- Readability •
- Min Weighing
- Base size •
- Dia. 90 mm Draft Shield Size 240 x 190 x 265 mm
- Calibration weight
- Display •
- Communication
- Unit
- Tex, Den, Nm, Ne, oz, g Statistics Weighing value, maximum value, minimum value, average, uneven rate

Liquid Crystal Display (LCD)

RS232 interface



P.Dimensions 510 x 360 x 640 mm (L x W x H)

11 kg

G.Weight

TY370 Twist Tester

Twist Tester, to determine yarn twist in single or plied yarns, is a quadrant type with auto stop & reverse for conventional or untwist/re-twist methods.

Twist tester offers adjustable test length up to 500 mm / 20 inches for S & Z twist yarns, and inching function helps operator to get an esteemed twist quickly. Test result in TPI / TPM is directly displayed on the touch screen.

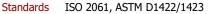
Specifications

Touch screen

- 4 test methods
- Direct counting, untwist/re-twist, 3- times untwist/re-twist method, etc.
- Length of specimen
- 100 ~ 1900 rpm Twist speed
- Pre-tension adjusted by loading weights
- 0.5 cN x 1, 1 cN x 1, 2cN x 2, 5cN x 1, 10 cN x 1, 20 cN x 2, 50cN x 2

10 ~ 500 mm adjustable

- Yarn count range 1 ~ 499.9 tex
- Units TPM / TPI
- Number of twists $10 \sim 4999$





Power	220 / 110 V	50 / 60 Hz
G.Weight	22 kg	
P.Dimensions	1010 x 360 x	350 mm (L x W x H)

TY380 Yarn Board (Board Winder)

Yarn Board (Board Winder), used to assess the evenness, hairiness, neps and other imperfections in a representative sample of yarn wound at a pre-determined pitch onto a tapered black yarn board.

Specifications

- Black board 250 mm (L) x 180 mm (W) x 2 mm (H)
- Yarn winding density 7, 9, 11, 13, 15, 19 wraps / cm
- 7 Rotation speed adjustable

Standards	ASTM D2255, GB 9996
Standards	ASTA D2235, GD 5550

Power	220 / 110 V 5	50 / 60 Hz
G.Weight	41 kg	
P.Dimensions	750 x 580 x 430	mm (L x W x H)

TY400C Automatic Single Yarn Strength Tester

Automatic Single Yarn Strength Tester, is to determine the breaking strength and elongation rate of single yarn made of cotton, wool and others up to 6000cN and equipped with air-driven clamps. The fully automatically test is up to test 20 cops at the same time.

Features

- Working pattern is CRE principle.
- Automatic feeding of yarn, and automatic clamping for test, fast and without damages to yarn
- Fitted with Waste yarn collecting device, to make labs clean
- Test up to 20 cops at the same time

Specifications

•	Test range	20cN ~ 6000cN
•	Accuracy	≤ 1% F. S
•	Sampling range	0 ~ 9 m
•	Pre-tension load	0 ~ 100cN, adjustable
•	Elongation range	800 mm
•	Gauge length	250 mm (stretching rate 220%),
		500 mm (stretching rate 160%)

	500 mm (stretching rate 160%)
Tensile speed	50 ~ 5000 mm/min, adjustable

Standards

ASTM D2256, ISO 2062, GB 5324, GB/T 14344





Power / Air 220 / 110 V 50 / 60 Hz 0.4 ~ 0.8mPa G.Weight 167 kg P.Dimensions 670 x 770 x 1700 mm (L x W x H)



Testing Instruments for Fabrics & Garments

To test the materials and accessories of garments and other textile products, such as fabrics, leather, non-woven, etc. and zippers, buttons, velcro... The testing of fabrics and garments includes the following: strength of tension, tearing, bursting, etc., resistance to abrasion, pilling, snagging, etc., air permeability, water vapor permeability, etc., color fastness to light, rubbing, washing, perspiration, etc., water penetration after flexing of coated fabrics and physical properties of zippers, buttons, etc.

TF001 Tensile Tester

Universal Tensile Tester is designed to test materials (yarn, fabric, plastic, paper, and etc.) in tension, elongation, compression, flexure, burst, shear, peel and other mechanical properties.

The equipment can be controlled by computer to collect accurate data, analyze data, output test results and reports.

≤1%

Specifications

- Load cell 250 kg / 500 kg
 - Maximum stroke 800 mm(not including the clamps)
- Stroke accuracy ≤1%
- Speed adjustment range 1mm/min ~ 500mm/min
- Relative error of speed accuracy
- Test force measurement range
 0.2%~100%FS
- Relative error of test force indication $\leq 1\%$
- Software

Optional load cell 5 kg, 10 kg, 20 kg, 30 kg, 50 kg, 100 kg, 150 kg, 200 kg

Standards ISO 13934-1/2, ISO 13935-1/2, ASTM D5034, ASTM D5035

 Power
 220 / 110 V
 50 / 60 Hz

 G.Weight
 130 kg

 P.Dimensions
 810 x 670 x 1650 mm (L x W x H)



Ball-bursting Strength Tester, is used for testing the ball-bursting strength and expansion rate of cotton fabrics, elastic fabrics, sock and glove products.

Specifications

- CRE principle, Micro-computer controls quality motor and screws
- LCD displays displacement, force, speed, and other information
- Test range 2500 N
- Speed range 5 500 mm/min adjustable
- Bursting balls SOP20 mm (or SOP25 mm, SOP38 mm)
- 1 set of Ball-bursting Strength Test rig is included

Standards ASTM D6797, FZ/T 01030 Method A, GB/T 19976

Power	220 / 110 V	50 / 60 Hz
G.Weight	94 kg	
P.Dimensions	670 x 650 x 1	490 mm (L x W x H)



TF110 Crease Recovery Tester

Crease Recovery Tester & Loading Device, is to determine the recovery properties of fabrics by creasing in a loading device for a pre-determined time using a weight suitable for the test method specified (BS/ISO/AATCC). After transferring the specimen to the clamp of the tester, the specimen is allowed to recover and the angle of recovery recorded.

Equipped completely with a crease recovery tester and two loading device, and other required accessories.

Standards ISO 2313, AATCC 66, BS EN 22313, M&S P22

G.Weight5 kgP.Dimensions340 x 180 x 280 mm (L x W x H)

TF112 AATCC Wrinkle Recovery Tester

AATCC Wrinkle Recovery Tester, is used for determining a fabric's ability to recover after wrinkling under a pre-determined load for a set period of time. A set of 5"x3" dimensional plastic replicas is offered on request to grade the test samples 1 ~ 5.

Optional order AATCC Wrinkle Recovery Tester Plastic Replicas (Set of 5)

StandardsAATCC 128, ISO 9867, ENKA 3061G.Weight5 kgP.Dimensions420 x 220 x 280 mm (L x W x H)





TF113 Fabric Stiffness Tester

Fabric Stiffness Tester, is to determine the bending height, flexural rigidity and bending modulus of a fabric by simple procedures and calculation.

Specifications

- Tilt angle 41.5 °
- Accuracy 0.1 °

Standards ISO 9073-7

Optional Standards ASTM D1388 Method A, ISO 4604, BS 3356, DIN 53362

G.Weight 3 kg P.Dimensions 420 x 160 x 280 mm (L x W x H)

TF114 Stiffness Tester Pneumatic

Fabric Stiffness Tester Pneumatic, is used for testing the stiffness of fabric by the bending cycle test method of ASTM.

Test Procedure

A plunger of 25.4 mm (1 in) diameter pushes the fabric through a 38 mm (1.5 in) diameter orifice for a distance of 57mm (2.25 in) in 1.7 seconds and the maximum force is recorded.

Specifications

- Pneumatic cylinder
- Compressed air is required

Optional Order

Digital force gauge 500N, Accuracy: 0.1 N

Standards ASTM D4032

 Air Source
 0.4-0.7Mpa

 G.Weight
 30 kg

 P.Dimensions
 460 x 390 x 890 mm (L x W x H)



TF116 Bally Flexing Tester

Bally Flexing Tester (Flexometer) is designed for flexing resistance test to bending or other types of failure at flexing creases.

The Flexometer is applicable to all flexible materials, in particular leathers, artificial leather below thickness of 3.0mm, and other coated fabrics, sheet materials, etc.

Specifications

Work stationsCounter	12 1 ~ 999,999 times
Standards	ISO 5402-1, ISO 32100
Optional Standards	SATRA TM55
Power G.Weight P.Dimensions	220 / 110 V 50 / 60 Hz 3 A 75 kg 910 x 540 x 550 mm (L x W x H)



TF117C Crumple / Flex Tester

Crumple / Flex Tester, is to determine the degradation of water resistance of coated fabrics due to the crumpling and flexing in use.

The equipment tests a tube of fabric by twisting it through 90° stretching alternately compressing the tube at the same time. After the completion of the test, the fabric is tested for resistance to penetration by water. Crumple-Flex Tester is fitted with electronic pre-determined counter with automatic stop at a pre-determined number of cycles, and also fitted with acrylic plastic interlock safety cover.

Features

Work stations 2

- Impact design of construction and appearance
- Acrylic safety cover ensures safety in operation

Standards ISO 7854 Method C, GB/T 12586 Method C

 Power
 220 / 110 V
 50 / 60 Hz
 3 A

 G.Weight
 65 kg

 P.Dimensions
 760 x 590 x 560 mm (L x W x H)



TF118 Fabric Drape Tester

Fabric Drape Tester, to measure and calculate the co-efficiency of drape of fabrics using image processing technology. It can be used to test the drape property of all kinds of fabrics.

Equipped with CCD imaging system, dynamic and static images processing, it offers a variety of charts and data statistics, analysis, storage and output. Specimens in all colors can be tested without changing background color.

Note: A customized PC is needed for this instrument.

Specifications

- Working pattern computer controlled, CCD imaging, full-automatic processing of images and computer data.
- Imaging sensor CCD
- Drape coefficient range 0 ~ 100%
- Accuracy ≤ +/-1.5
- Diameter of specimen disc Φ120mm (optional Φ180mm)
- Dimension of specimen Φ 240mm (optional Φ 300mm, $\dot{\Phi}$ 360mm)
- Light source

Rotation speed 10 ~ 120 rpm

Standards

GB/T 23329 method B

Optional Standards ISO 9073-9 method B



00

 Power
 220 V
 50 Hz
 120 W

 G.Weight
 170 kg
 170 kg
 170 x 850 x 177 mm (L x W x H)

TF119 Scott Type Crease-Flex Abrasion Tester

Scott Type Crease-Flex Abrasion Tester, is to determine the crease-flex abrasion resistance of leather, rubber, cloth, etc. The force loaded on specimen, distance between grips and the two-way distance can be adjustable. And the force loaded on specimen is of spring type.

Clamp the two specimens in cross shape. Based on the various materials of the specimen, apply the appropriate load. During test, the two specimens are creased and flexed reciprocally. After reaching the specified number of abrasions, take off test samples to check if they are cracked, wrinkled or discolored.

Specification

Standards

- Specimen 30 x 120 mm
- Holders 0 ~ 50 mm (standard 30 mm)
 Pressure load 0.5 ~ 5kgf
- Friction distance 0 ~ 60 mm (standard 50 mm)
- Friction speed 120+/-2cpm

 Power
 220 / 110 V
 50 / 60 Hz

 G.Weight
 84 kg

 P.Dimensions
 790 x 580 x 660 mm (L x W x H)

GMW 3217



TF120 Fabric Scale

Fabric Scale, is to determine the weight of fabric, paper, cardboard, film, etc. This electronic scale is provided with LCD display, stainless steel plate and wind-proof caps.

Specifications

Measuring range	200 g
Precision	0.01 g

Power	220 / 110 V	50 / 60 Hz
G.Weight	5 kg	
P.Dimensions	400 x 310 x 380) mm (L x W x H)

TF121B Thickness Gauge

Fabric Thickness Gauge, an accurate soft material thickness tester with counter balance designed to exert minimal load on sample through 1.129 in. (28.7mm) and 0.375 in. (9.5mm) diameter presser foot. Digital display of thickness up to 10mm with a resolution of 0.01mm Supplied with a loading Weight to provide a load of 0.6psi (4.14kPa) and 3.4 psi (23.4kPa). Other configurations available on Application required.

Specifications

- Base diameter: 38mm
- Presser foot diameter: 28.7mm, 9.5mm
- Thickness range: 0.01-10mm
- Precisions: 0.01mm

Standards ASTM D1777 Testing Option 1, 2

G.Weight 7 Kg P.Dimensions 230 x 230x 300 mm (L x W x H)





TF121C Auto Thickness Gauge

Auto Thickness Gauge, is to determine the thickness of various woven and knitted fabrics under a certain pressure. Automatic lifting up and down is to avoid manual operation error; each test should be pre-set pressing time for 10s or 30s.

Specifications

- Digital display
- Range of thickness . Measuring accuracy
- 0.01 mm Lowering speed of pressing-foot 1.72 mm/s
- Area of pressing foot
- foot 100 mm², 2000 mm², 2500 mm², 10000 mm² 2cN x 2, 5cN x 1, 10cN x 2, 50cN x 2, 100cN x 1, 400cN x 1, 1000cN x 2 Load weight .

0.01~25 mm

• Pressing duration 10s, 30s

Optional Order

Range of thickne	ess	0.001~2	5 mm			
Standards		ISO 5084	, ISO 9073-2	Metho	A bc	
Optional Standa	rds	ISO 9863	Method A/B			
Power G.Weight P.Dimensions	51 kg		50 / 60 Hz mm (L x W		100 W	

TF123B Hand-held Textile Moisture Meter

Hand-held Textile Moisture Meter, is widely used in leather materials, fabrics, garments, yarn, axis, cheese, textiles and other industries that need rapid determination of moisture (moisture regain).

Features

- Textile moisture meter using high-frequency theory, LCD digital display, the probe and the host all in one
- Position the probe against the surface to be measured, determine moisture quickly within one second

0~40%

- Measure accurately and without any damaging on the surface to be measured
- Small size, light Weight that can be portable for on-site rapid testing •

Specifications

- Moisture range
- Work environment
- Accuracy •
- Response time
- Display
- High-frequency scanning depth Stall converter
- -5 ℃ ~ +60 ℃ ± 0.5% 1 second LCD digital display 50 mm $0 \sim 10$

TF124 Course Length Tester

Course Length Tester, is to determine the accurate length of a complete course of knitted fabric. When the yarn is attached to the clamp and wound round the pulleys, the length indicated on the ruler by the weighted clamp is added to that indicated on the appropriate location in use to give the total length of yarn. Course length range is 50-900 cm (2-36 inches).

Standards BS 5441

Weight 25 kg Dimensions 50 x 25 x 1550 mm (L x W x H)





Power Weiaht Dimensions 9V battery (6F22) 0.4 kg 200 x 90 x 110 mm (L x W x H)



TF125 Crimp Tester

Crimp Tester, to calculate the crimp in yarn affected by knitting or weaving by taking apart the yarn from a piece of given-length fabric, unbending it under given force and measuring its length, to determine actual yarn usage.

Features

- Touch panel display and control
- Auto alarms after drawing to a predetermined tension, and stops
- Automatic or manual testing mode
- Automatic operation after setting up force value Real-time display of elongation and force value

Specification

- Load range: 0. 01 200 cN
- Length sensor accuracy: 1mm
- Display: Touch panel
- Stroke (excluding grips): 10 1000mm .

Standards	ISO 7211-3/5	ASTM D3883	3、GB/T 29256.3
Power G.Weight	220 / 110 V 43 ka	50 / 60 Hz	200 W
P.Dimensions	1620 x 360 x 43	30 mm (L x W	x H)

TF128 Moisture Management Tester

Moisture Management Tester, is to measure the dynamic liquid transport properties of textiles such as knitted and woven fabrics in three dimensions.

Absorption Rate - Moisture absorbing time of the fabric's inner and outer surfaces. One-way Transportation Capability - Liquid moisture one-way transfer from fabric's inner surface to outer surface.

Spreading / Drying Rate - Speed of liquid moisture spreading on fabric's inner and outer surfaces.

Note: A customized PC is needed for this instrument.

This moisture management tester permits the measurement of the following indexes

- Wetting Time Top / Bottom (WTT / WTB)
- Absorption Rate Top / Bottom (TAR / BAR) Maximum Wetted Radius Top / Bottom (MWRT / MWRB) ٠
- Spreading Speed Top / Bottom (TSS / BSS)
- Accumulative One-Way Transport Capacity (R)
- Overall Moisture Management Capacity (OMMC)

Specifications

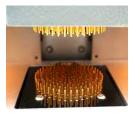
- Analysis Software
- Interface
- USB 1.1 / 2.0 Operation Temp & R. H. 18°C to 40°C, 20% to 80% (non-condensing)
- Pump on Time 20 sec **Test Solution** Conductivity - 16 ms ± 0.2 ms

Standards

AATCC 195, GB/T 21655.2







Gold-plating Pins

Power	220 / 110 V	50 / 60 Hz 1 A
G.Weight P.Dimensions	22 kg 470 x 270 x 38	30 mm (L x W x H)

TF129 Sweating Guarded Hotplate

Sweating Guarded Hotplate is the most professional, stable and advanced thermal and the evaporative resistance testing instrument in the world.

Human skin simulation test plate, automatic water supply system, wind speed stabilization system, test host and climate chamber are completely separated design. Automatically adjust the height of the hotplate according to the thickness of the test sample, ensures the wind sensor is 15mm above the hotplate.

A Windows based software is offered. The main machine inside the chamber is connected with the software by Wi-Fi, so operators may control and monitor the testing in the office.

An advanced Temperature & Humidity Chamber is offered with the machine.

Note: A customized PC is needed for this instrument.

Specifications

• (RC	T)Thermal resistance range	0.002-2 .0 m ² K/W
 Rep 	peatability	≤ ± 2%
 Res 	solution	0.0001 m²K/W
• (Re	t) evaporative Resistance range	0-1000 m ² Pa/W
 Res 	solution	0.001 m ² · Pa/W
 Tes 	t temperature range	0 - 35°C
 Ten 	nperature control accuracy	± 0.2 ℃
• Air	velocity	0 ~ 1 m/s, adjustable
• Air	velocity accuracy	± 1%
 San 	nple thickness	0 ~ 50 mm
 Tes 	t plate area	254 mm x 254 mm
• Gua	ard ring size	512 mm x 512 mm
• Gua	ard ring width	127 mm
Standards	s ISO 11092, ASTM F1868,	, GB/T 11048
Dowor		

Power	TF129: 220 V	50 Hz	TU340: 380 V	50 Hz
G.Weight	69 kg			
P.Dimensions	800 x 700 x 50	0 mm (L x W	x H)	







TF130 Thermal Resistance Tester

Thermal Resistance Tester, is to determine the thermal resistance, thermal conductivity, and CLO value of various fabrics, quilting products, and other heat insulation materials.

Microcomputer controlled, data processors and quality temperature sensors are used, ensuring high test speed and precise test result. All performances of the sample (Include Insulation rate, heat transfer coefficient) can be directly calculated. Test data and result are displayed on the large LCD display, and can be stored or printed out.

Specifications

•	Temperature range	20-50 ℃
•	Temperature accuracy	±0.5 ℃
•	Resolution of temperature	0.1℃
•	Range of Pre-heating Time	0 ~ 99.9 min
•	Cycles	1-9 times
•	Sample size	300 x 300 mm
•	Testing plate size	250 x 250 mm
	0.1	

Standards GB/T 11048, FZ/T 73016

Power	220 V	50 Hz	
Weight	70 kg		
Dimensions	790 x 6	60 x 960	mm (L x W x H)



TF131 UV Penetration & Protection Test System

UV Penetration & Protection Test System, is used for testing UV protection properties of textiles. Fabric samples are measured in a double beam spectrophotometer with an integrated sphere. The sample is scanned over the UVA and UVB regions of the spectrum and transmitted radiation is efficiently collected by the detector within the integrating sphere. The software calculates UV penetration factors and sun protection factors from the scan data. It runs on a PC under Microsoft Windows and controls the spectrophotometer, automates the measurement process and generates a printed report. PC and printer are not included.

Note: A customized PC is needed for this instrument.

Specification

.

•	Measuring range

- 0 100% ± 0.01% Through rate
- UPF
- 0 50+ Wavelength range 280 ~ 400nm ± 0.5nm
- Wavelength repeatability 0.25nm
- 2nm, 5nm (adjustable) Data interval
- Slit width
- Optic system 0 / d
- Light diameter of sample 10 mm

Standards	AATCC 183, PREN 13758, GB/T 18830, AS/N ZS 4399
Power G.Weight	220 / 110 V 50 / 60 Hz 100 W 45 kg, 8 kg
P.Dimensions	650 x 410 x 520 mm (L x W x H), 470 x 330 x 180 mm (L x W x H)

< 5nm

TF134 Down-proof Tester

Down-proof Tester, is to determine the down-proof capability of fabrics used for down-garment, quilt, etc, which are filled with down, feather and fibers.

Take an agreed size specimen from the fabric to be tested to sew a pocket at specified size, fill with a certain weight of down, feathers or a mixture of both, then sew the fabric up to be a testing bag. Clamp the both sides of the bag in the holder. Determine the down-proof ability of the fabric by calculating the number of down and feathers through the fabric.

Specifications

•	Touch panel	
•	Fixture space	44 ± 1 mm
•	Eccentricity	25 ± 0.5 mm
•	Speed	0~200 r/min (Adjustable)
•	Sample size	140 x 420 mm
•	Cushion size	120 x 170 mm
•	Test times	2700, settable
•	Counter	0 to 99,999 times

- - LED display

Standards

EN 12132-1, GB/T 12705.1





Power	220 / 110 V	50 / 60 Hz
G.Weight	49 kg	
P.Dimensions	640 x 550 x 5	60 mm (L x W x H)

TF135 Feather & Down Filling Power Tester

Feather & Down Filling Power Tester, is to determine the filling power (massic volume) of feather and down.

Pressure on the sample by dropping the platen is applied to the filling material at a constant speed and the level of the platen is noted after a stipulated time. The massic volume is calculated through the height and the known diameter of the graduated cylinder.

Functions

- Automatic blowing system
- Individual filter system design
- DC gear motor driving
- SCM controlling
- Touch screen operation
- Automatically lower done the platen and display the height

Specifications

 Measuring spee Measuring heig Measuring accu Graduated cylir Plunger and Me Air velocity Equipped with 	ht Iracy Ider internal diameter easuring Rod	520 ± 20 mm/min 750 mm 0.1 mm 289 ± 1 mm diameter 285 mm, weight 94.3g (310 \pm 50) L/min
Standards	GB/T 14272-2011, G	B/T 10288
Optional Standards	BS EN 12130	



Power	220 V 50 Hz 750 W
Weight	50 kg
Dimensions	880 x 740 x 1460 mm
	500 x 550 x 1200 mm (L x W x H)

TF140A Elmendorf Tear Tester

Elmendorf Tear Tester is specially designed for the tearing strength of fabric, paper, leather, film, non-woven materials with well-regulated tearing direction, and other thin materials. Elmendorf tester does not apply to sparse fabric or stretch materials which tearing direction might be shift when testing.

Specifications

- Capacity: 0-6400 grams (0 ~ 64 N)
- Pendulum Range(cN): 0~ 1600, 0 ~ 3200, 0 ~ 6400
- Accuracy: $\leq \pm 1\%F \cdot S$
- Tear length: 43 mm
- Incision length: 20 ± 0.2 mm
- Sample size: 100 x 75 mm

Included Accessories

3 pendulums 1600cN/g (3.5lb), 3200cN/g (7.0lb), 6400cN/g (14.0lb) Cutting Blades 2 Pcs

Standards ASTM D1424, ISO 13937-1

Power	220 V	50 Hz
G.Weight	42kg	
P.Dimensions	620 x 42	20 x 500 mm



TF140C Elmendorf Tear Tester

Elmendorf Tear tester, a falling-pendulum(Elmendorf-Type) instrument to decide the ballistic tearing strength of textiles, plastics, paper or board by providing a required force to propagate a single-rip tear starting from a cut in fabric.

Elmendorf tearing strength tester complies with ASTM D1424, BS ISO 13937-1, etc. Elmendorf Tear Strength Tester will perform an easy and efficient test procedure when you need to know the tear strength of the fabric.

Elmendorf tensile testing machine is not applied to sparse fabric or stretch materials which the tearing direction might be the shift in the test.

Features

- Works in accordance with all known test standards.
- The model is the only one that covers the most completed test range from 0 to 12800cN.
 The tensile testing equipment can be controlled by the large graphic touch panel without computer and software.
- Automatic specimen clamping and notching.
- Repeatable, pneumatic specimen gripping system guarantees sufficient clamping pressure to avoid all slipping phenomena, thus ensuring perfect reproducibility of the experimental conditions.
- Automatic compensation for friction and leveling errors, no slave pointer, therefore no friction, alignment and maintenance problems.

Specifications

- Capacity: 0-12800 grams (0 ~ 128 N)
- Pendulum Range(cN): 0~ 1600, 0 ~ 3200, 0 ~ 6400, 0 ~ 12800
- Accuracy: $\leq \pm 0.5\%$ F•S
- Unit: GF, MN, CN, CP, LB

Included Accessories

- Complete with work pendulums
- 1600cN/g (3.5lb), 3200cN/g (7.0lb), 6400cN/g (14.0lb), 12800cN/g(28.0lb)
- 2 pcs of Cutting blades
- 1 pc of Specimen cutting template

Standards ASTM D1424, BS ISO 13937-1, GB/T 3917.1

TF142A/B Auto Bursting Strength Tester

Auto Bursting Strength Tester, is to determine the bursting strength of fabric and non-woven by the hydraulic load under a rubber diaphragm of a specific area.

Bursting tester provides with a digital readout of pressure with peak hold facility, and renewable rubber diaphragms. Automatic clamping device with clear acrylic bell, an LED lamp are equipped for easy observation.

Interchangeable test bells and clamping ring sets 7.3 cm² (Φ 30.5 mm), 10 cm² (Φ 35.7 mm), 50 cm² (Φ 79.8 mm), 100 cm² (Φ 112.8 mm).

Bursting tester is provided with three test methods, constant speed bursting, certain pressure bursting and certain extension.

Specifications / Features

- High-accuracy servo-motor driving system
- Automatic-clamping offers firm and reliable clamping
- Large colorful touch panel
- Automatic induction and bursting system.
- Equipped with memory and printing function
- Resolution 2Kpa
- Test Head and Clamp: 50cm2(Φ79.8mm), 7.3cm2(Φ30.5mm), the other sizes are available on request.

Models

- TF142A 2000 kPa (290 psi)
- TF142B 10000 kPa (1450 psi)



(Pictures for reference only, will update)

 Power
 220 / 110 V
 50 / 60 Hz
 0.5-0.7Mpa

 G.Weight
 105kg

 P.Dimensions
 740 x 640 x 890 mm (L x W x H)



Standards ISO 13938-1, GB/T 7742.1, ASTM D3786

Power	220 / 110 V	50 / 60 Hz
G.Weight	155 kg	
P.Dimensions	740 x 540 x 10	$010 \text{ mm} (L \times W \times H)$

TF142C Pneumatic Bursting Tester

Pneumatic Bursting Tester, is to determine the bursting pressure of fabrics using pneumatic test method, including knits, woven fabric, non-woven fabric, laminated fabric and other craft-made fabric.

A test specimen is clamped over an expansive diaphragm by a circular clamping ring; increasing compressed air pressure is applied to the underside of the diaphragm, causing distension of the fabric until the test specimen bursts; the bursting strength and distension are determined.

Specifications/ Features

- Automatic clamping and burst test, automatic calibration,
- Bursting pressure up to 800 KPa, accuracy $\leq \pm 0.2\%$ F•S, run rate: ≤ 60 Kpa/s
- Burst distension up to 70 mm
- Equipped with lamp for clear observation
- Transparent acrylic cover ensures safe operation
- 4 most commonly used test areas are available and be easily shifted, Test Heads 100, 50, 10, 7.3 cm² (112.8, 79.8, 35.7, 30.5 mm Dia.)

Optional order

Diaphragms	pack of 10		
Standards	ISO 13938-2,	GB/T 7742.2,	ASTM D3786
Power/Air G.Weight P.Dimensions	220 / 110 V 156 kg 850 x 640 x 1		0.4 ~0.7MPa W x H)



TF143 Fryma Extension Tester

Fryma Extension Tester, is to simply and economically determine the stretch and recovery of textile fabrics that are both knitted and woven. The apparatus consists of a loading frame with clamps and a screw tension device and sample cutting templates.

Clamp the test sample. By rotating the shaft in the back anti-clockwise, the moving clamp is moved back to stretch the sample, so the stretch rate can be read directly on the scale, and both knitted fabrics and woven fabrics scales can be read. By pressing the knob on the right side, the moving clamp can be returned back to initial position quickly.

SpecificationLoading w	eights	3 kg or 6 kg
Standards	BS 4294	
G.Weight P.Dimensions	20 kg 610 x 250 x 200	mm (L x W x H)



TF145 Snap Tester (Button Pull Tester)

Snap Tester (Button Pull Tester), is to determine the holding or breaking strength of prong-ring attached snap fasteners onto garments or toys, also as a Push Pull Tester for compression and tensile testing of small samples (special attachments are available).

Our snap tester consists of an upper snap clamp, a lower fabric clamp and force gauge mounted on a stand, a hand wheel on the bottom of snap tester which allows fine control with convenient operation.

The snap component is gripped by the Upper Snap Clamp and the garment is fixed to the lower Fabric Clamp. By turning the hand wheel, the operator can apply a specific force and the holding force or the breaking strength can be recorded. The capability of the snap tester can be enhanced with clamps & accessories for testing of other Snaps, Jean Buttons, Four Hole Buttons & Garments Accessories such as Zippers, Bows, Appliqué, Toggles, Hooks/Bars, and D-Rings, amongst others.

Included Accessories

- 1 Upper Stud Clamp
- 1 Long Nose Vice Grip
- 1 Upper Snap Clamp
- 1 Three-Pronged Clamp
- 1 Two-Pronged Clamp with screw
- 1 Lower Grasp Button Kit (on the machine)
- 1 Lower Fabric Clamp, Lever Armlocking (on the machine)

Optional order

Analog Force Gauge (300 N, resolution 2 N, accuracy +/-1%FS)

TF150 Zipper Reciprocation Tester

Zipper Reciprocation Tester, is to determine the resistance to reciprocation of zipper (slide fastener). The test specimen is subject to a specified number of cyclic operations whilst under lateral and longitudinal tension.

Zipper Tester catches the head of zipper to do reciprocating movement in a constant speed for 30 times per minute. Integral counter is set to stop the drive when a pre-selected count has been reached.

Equipped with a sensor so that the machine will stop automatically before the zipper is broke. Adjustable stoke 40 \sim 100 mm is offered as request.

Specifications

- Speed 30cpm
- Horizontal force 0~100N
- Longitudinal force 0~50N
- Counter 1-999,999 times (adjustable)

Standards EN 16732 - 5.7, QB/T 2171

Power	220 / 110 V	50 / 60 Hz 5 A
G.Weight	70 kg	
P.Dimensions	670 x 490 x 920) mm (L x W x H)



Standards

ASTM F963 8.9, EN 71-1 8.4.2.3, 16 CFR 1500.51-53

G.Weight 45 kg P.Dimensions 440 x 410 x 910 mm (L x W x H)



TF151 Fastening Tape Tester

Fastening Tape Tester, is to determine the capability of Velcro used for shoes, garments, etc. Cut the specimen 540 mm by 20 or 50 mm in dimension from the sample being tested into the wheel of fastening tape tester to be fitted completely. To subject hook & loop to repeated stripping and peeling for a certain number of times. Use tensile machine (another purchase) to measure its peeling strength (AS) and shear strength (PA) after this test.

Features

- PLC closed-loop controller controlled. AC servo motor ensures accurate and durable running.
- Rigid construction and advanced AC servomotor ensures quiet running.
- Transparent plastic cover ensures safe and convenient operating.

Specifications

- Upper Roller Dia. 162+/- 0.5 mm, 80 mm in width
- Lower Roller Dia. 160+/- 0.5 mm, 80 mm in width
- Roller Speed 60+/-5 r/min
- Load 1+/-0.1 N/mm
- Number of test cycles 5,000
- Counter LCD display, 1- 9, 999 times, adjustable

Standards BS EN ISO 22776, SATRA TM 123

Power	220 / 110 V	50 / 60 Hz	3 A
G.Weight	99 kg		
P.Dimensions	680 x 600 x 84	Юmm (L x W x	H)

TF152 Dynamic Seam Fatigue Tester

Dynamic Seam Fatigue Tester, is to determine the strength of upholstery seam constructions covering a standard foam composite cushion by imposing a cyclic, impact and penetrating load.

A rubber-faced wheel of 127 mm (5") diameter impacts the fabric from a height of 150 mm (6") with a mass of 3.75 kg (8.25 lbs), 25 times per minutes for 7000 cycles. Compressed air is required.

Dynamic Seam Fatigue Tester is 3 work positions, and 6 positions offered on request.

Specifications

•	Testing frequency	25+/-2 cycle/min
•	Testing cycles	7,000
•	Impacting mass	3.75 kg
•	Foam composite	228.5 x 280 x 178 mm
•	Dimensions of sewn specimen	360 x 255 mm
•	Driving mode	Pneumatic

 Standards
 ASTM D4033

 Power/ Air Supply
 220 / 110 V
 50 / 60 Hz
 0.4 ~ 0.7Mpa

 Weight
 350 kg
 350 kg
 1600 x 860 x 1450 mm (L x W x H)

TF154 Woven Fabric Stretch Recovery Tester

Woven Fabric Stretch Recovery Tester, is to determine the stretch properties of fabrics woven from stretch yarns under a specified tension and extension.

Specifications

- 6 Test stations
- Made of stainless steel
- 4 lb and 3 lb tension weights are offered

Standards	ASTM D3107
Standards	AJIN DJIO/

G.Weight 134 kg P.Dimensions 1450 x 690 x 1790 mm (L x W x H)







TF155 Knitted Fabric Stretch Recovery Tester

Knitted Fabric Stretch Recovery Tester, is to determine the stretch properties of knitted fabrics from stretch yarns under a specified tension and extension, including constant load test frame and constant extension test frame.

Specifications

- Test station 6 • Width of hanger 140 mm • 12
- 5 lb tension weight ٠ Upper hanger
- Lower hanger •
- 6 Capable of providing total tensions of 5 lbf and 10 lbf to the specimen

6

Standards	ASTM D2594

G.Weight 95 kg 1050 x 640 x 1840 mm (L x W x H) **P.Dimensions**

TF159 Impact Penetration Tester

Impact Penetration Tester, is to determine the resistance of fabric to the penetration of water by impact, and thus can be used to predict the probable resistance of fabrics to rain penetration. It is especially suitable for measuring the penetration resistance of garment fabrics.

Specifications

- The size of the spray head 56mm diameter, the hole of spray head is 1mm diameter, 25 pcs.
- The distance from the bottom of spray head to the centre of specimen 600 mm
- The volume of tested water 500 ml
- The width of clamp 152 mm 45°
- Angle
- The specimen size 178 x 330 mm

Standards AATCC 42

G.Weight 21 kg **P.Dimensions** 440 x 400 x 770 mm (L x W x H)

TF160 Spray Rating Tester

Spray Rating Tester, is to determine the surface wetting resistance of fabrics, which may or may not have been given a water-resistant or water-repellent finish. Spray rating tester consists of a metal framework allowing distilled water to be sprayed

through a nozzle onto a test specimen at 45° and 150mm below the nozzle.

Specifications

- Nozzle 19 holes of Dia. 0.86 mm 45°
- Angle of holder
 - Dia. 150 mm, 150 mm below the nozzle Holder

250 ml

Measuring Cup

Optional order Standard Photographic for AATCC 22

Standards	ISO 4920, AATCC 22
G.Weight	13 kg
P.Dimensions	360 x 360 x 630 mm (L x W x H)







TF161 Rainproof Tester

Rainproof Tester, is to determine the penetration resistance of fabrics or composites at different intensities of water impact. Simulated rain horizontally impacts fabric samples mounted vertically in a stainless-steel bath. Samples are backed with a standardized blotting paper, which is weighed before and after each test. The rain is formed by a column of water, which can be adjusted from 600mm to 2400 mm.

200 x 200 mm

Specifications

Test dimensions

- Sample nip width
- Sample nip space between
- Sample nip dimensions
- 165mm(GB/T 23321), 155mm(AATCC 35, ISO 22958) 178 x 279 mm

152 mm

- Nozzle diameter
- 0.99 ± 0.013 mm
- Nozzle space between sample 305 mm

Optional order AATCC Blotting Paper 500 x 1000 mm (20 x 40 in) 25 Sheets

Standards	AATCC 35, ISO 22958, GB/T 23321
Weight	60 kg
Dimensions	650 x 800 x 2800 mm (L x W x H)

TF163A Hydrostatic Head Tester

Hydrostatic Head Tester, is used for determining the resistance of fabrics (canvas, coated fabrics, cover cloth, rainproof clothing fabrics and geotextile materials) and films to water penetration under pressure while firmly clamped in the test rig of standard area.

Specifications

- Equipped with a LED lamp to observe test process clearly
- Pressure Range
- Increasing rate of water pressure
- Units

0 ~ 200kPa (20 m water column) 1 ~ 60kPa/min stepless adjustable Pa, kPa, mmHg, cmH2O

- Standarad Test Head
- 100 cm²

1 ~ 60kPa/min stepless adjustable

AATCC 127 Option 2, ISO 811, GB/T 4744 Standards

Optional standard ISO 1420 Method B

Power	220 V	50 Hz	200 W
G.Weight	79 kg		
P.Dimensions	690 x 5	80 x 77	0 mm (L x W x H)

TF163C Hydrostatic Head Tester

Hydrostatic Head Tester, is used for determining the resistance of fabrics (canvas, coated fabrics, cover cloth, rainproof clothing fabrics and geotextile materials) and films to water penetration under pressure while firmly clamped in the test rig of standard area.

Specifications

- Closed-loop controlled servo motor drives pistons to achieve the unique water pressure raising rate balance system.
- Variable test method can be selected, test time and variable pressure increasing rate can be set and saved.
- Wide range of pressure increasing rate and freely adjustable. Real-time test results are shown on the large colourful touch panel

AATCC 127 Option 2, ISO 811, BS EN 20811, GB/T 4744

- Equipped with a LED lamp to observe test process clearly
- Pressure Range 0 ~ 200kPa (20 m water column) 0 ~ 500kPa (50 m water column)
- Increasing rate of water pressure
- Units

Pa, kPa, mmHg, cmH2O Automatic clamp with holding force 5kN

- Standard Test Head 100 cm²
- Standards
- Optional standard ISO 1420 Method B



Power	220 V 5	i0 Hz	3 A	500 W
G.Weight	107 kg			
P.Dimensions	650 x 550) x 87	0 mm	$(L \times W \times H)$





TF164B Air Permeability Tester

Air Permeability Tester, is to determine the resistance of fabrics (woven, knitted and non-woven textile materials) to the passage of air (air flow) under constant pre-set air pressure while firmly clamped in the test rig of selected test head / area.

The specimen is loaded to the test area of the instrument easily by means of a automatic holder. By pressing down the holder to start the test. Air permeability tester equipped with a vacuum pump to draw air through an automatic interchangeable test head with a circular opening. The pre-selected test pressure is automatically maintained, and after a few seconds the air permeability of the test specimen is digitally displayed in the pre-selected unit of measure on the touch panel, or the next test nozzle required to be replaced will be displayed. After test the holder is released and the vacuum pump will be shut off.

Specifications

- Can be controlled by the touch panel
- Test result is displayed on touch panel
- Units can be shifted m3/m2.min, cm3/cm2.s, m3/m2.h, L/dm2.min, L/m2.s, mm/s, cfm
- Equipped with printing function
- 11 nozzles are included
- Standard Test Heads 20 cm² and 38 cm²
- Measuring Range 0.1~9999 mm/s (L/m2s)
- Test pressure

Standards

- 1 ~ 4000 Pa
- Max thickness of specimen ≤ 8 mm Measuring accuracy <+/-2%

5 cm², 25 cm², 50 cm², 100 cm² Optional test heads

ASTM D737, ISO 9237

TF164E Auto Air Permeability Tester

Auto Air Permeability Tester, is used to determine the air permeability of fabric totally automatically. With its wide measuring range, it is suitable for all kinds of knitted, woven, non-woven, coated fabrics, paper, film, leather, etc.

A test sample is placed on the clamping head; parameters of test are set on the Android based software on the Samsung pad connected with machine. By pressing down the upper clamping arm the system automatically starts, the system automatically adjusts machine and shift nozzles if required; after a few seconds the test results are then displayed and the excel report is generated, and the test results are displayed on the Samsung pad.

Specifications

units can be shift

mm/s, cfm, cm³/cm²/s, l/m²/s, l/dm²/min, m³/m²/min, m³/m²/h, dm³/s

- Test Heads 20 cm²
- Test pressure
- 10 ~ 2,500 Pa Max thickness of specimen 0 ~ 10 mm
- Measuring accuracy <+/-2%

Optional test heads	5 cm ² , 25 cm ² , 38 cm ² , 50 cm ² , 100 cm ²
Standards	GB/T 5453, ISO 9237, ISO 9073:15-2007
Optional Standards	ASTM D737

Power	220 / 110 V	50 / 60 Hz
G.Weight	132 kg	
P.Dimensions	780 x 690 x 1	.300 mm (L x W x H)



Power	220 / 110 V	50 / 60 Hz
G.Weight	121 kg	
P.Dimensions	1000 x 450 x	1140 mm (L x W x H)

TF165A Water Vapour Permeability Tester

Water Vapour Permeability Tester, is to determine the resistance of textiles and textile composites (particularly action wear fabrics) to water vapour penetration. Water vapour permeability tester consists of 8 containers with water reservoirs, a standard permeable fabric cover, sample holder ring and precision drive system.

Water vapour permeability tester should be worked in conditioning room or conditioning chamber. Wet-cup can be converted to do different tests.

Specifications

•	Rotation Speed	2 rpm	
	Wet Cup	0 000	

8 pcs Wet-Cup adjustable, automatically stop Counter

Optional order Reference Fabric for BS 7209

Standards	ISO 8096, BS 3424-34, BS 7209			
Power G.Weight P.Dimensions	220 / 110 V 30 kg 580 x 500 x 44	50 / 60 Hz ł0 mm (L x W		



(Pictures for reference only, will update)

TF165B Auto Water Vapour Permeability Tester

Water Vapour Permeability Tester, is to determine the water vapour permeability of various textile and garment fabric, coating fabric, composite, sportswear and industrial fabrics.

This tester is equipped with touch panel to program and control the test.

Specifications

Airflow speed 0.1 ~ 0.8 m/s

18 ~ 50℃ ± 0.5℃ Temperature

Humidity 40% ~ 95%

Standards ASTM E96: Standard Test Methods for Water Vapor Transmission of Materials

Optional Standard JIS L1099, GB/T 12704

Power 220 V 50 / 60 Hz 4500 W G.Weight 291 kg, 33 kg 920 x 730 x 1940 mm (L x W x H), 850 x 550 x 530 mm (L x W x H) P.Dimensions

TF167 Surface Water Absorption Tester

Surface Water Absorption Tester, is to determine the ability of a terry fabric to rapidly absorb and retain liquid water from surfaces such as human skin, dishes and furniture.

Specimens are placed at an angle on the base of the apparatus. After water flowing down the surface of each specimen, the amount of water retained in each specimen is measured. Six specimens are tested, three on the face of the fabric and three on the back of the fabric. The six observations are averaged to determine the surface water absorption of the fabric.

Specifications

•	Pour Spout	30+/-2 mm (1.18 +/- 0.08 in.)
•	Angle of hold	60°

- Angle of hold
 - Time of water flow 50 ml within 8s 6 +/- 4 mm (0.24 +/- 0.16 in.)
- Water dropping height

ASTM D4772-2009, GB/T 22799-2009 Method B Standards

G.Weight 23 kg 620 x 350 x 710 mm (L x W x H) **P.Dimensions**





TF171 Automatic Liquid Filling Machine

The automatic Liquid Filling Machine is designed for the soaping color fastness test, which automatically refills a constant temperature detergent into the designated test cup according to the weight of the test sample and the specified bath ratio. The instrument can be heated automatically and is equipped with a sample weighing system, which results in quick and precise filling of steel balls as required. With a test cup induction device, the instrument integrates the operation from weighing, putting the cup, to automatic liquid filling, which improves the accuracy of the liquid filling amount and also effectively saves labor and time cost.

range 600g, accuracy 0.01g

volume 5500mL, working volume 5000mL

2.5~300mL, accuracy \leq 100mL \pm 1mL, >100mL \pm 1%

Specification

- Scale
- Soap tank
- Single pumping volume of soap
- Pumping speed
 - 28mL / s 0~65°C, accuracy ±1°C
- Temperature control range
 - Steel ball filling speed 10pcs/s

220 V 50 / 60 Hz 6 A Power 1150 W Weight 48 kg 500 x 470 x 500 mm (L x W x H) Dimensions

TF175 Standards Tumble Dryer

Standard Tumble Dryer, is used for the test of drying process and of the drying procedures needed by other textiles, which are prescribed in the standard textiles test purposed household cleaning and drying procedures.

Specifications

٠

- Type front-loading, horizontal drum 58 ± 1 cm
 - Drum diameter 100 L
- Drum volume ٠
- Number of lift sheets
- 3 pieces with 120° between each one 5 kg
 - Rated drying capacity Air outlet temperature <70°C

Standards ISO 6330, GB/T 8629

220/110 V 50/60 Hz 2 kW Power 150 kg G.Weight 800 x 800 x 960 mm (L x W x H) **P.Dimensions**

TF176 Automatic Shrinkage Washer

Automatic Shrinkage Washer, is used for testing the dimensional stability of fabrics, clothing and other textiles after washing. Rated loading capacity is 5+/-0.05kg; with touch screen control, it is a model with similar functions of Wascator.

Specifications

Spec	IIICations	
•	Interior rowing box diameter	520 ± 1 cm
•	Interior rowing box depth	315 ± 1 cm
•	Inside and outside cylinder radia	l distance 1.7 ± 0.1 cm
•	Number of lift sheets	3 pieces
•	Raised wing height	5 ± 0.5 cm
•	Revolution speed	Washing 52 r/min,
		Drying 500 \pm 20 r/min
•	Water Level Control	low level = 10 cm, high level = 13 cm
•	Temperature Detection	Room temp. ~ 99 $^{\circ}$ C ±1 $^{\circ}$ C, readability 0.1 $^{\circ}$ C
•	Heating power	5.4 ± 2% KW
•	Rated loading capacity	5 ± 0.05 kg
•	Rotating Speed	30 ~ 800 r/min
•	Interior rowing box volume	70 L

ISO 6330, ISO 5077, GB/T 8629, GB/T 8630 Standards







Power	220 / 110 V	50 / 60 H	lz 6.5 KW
G.Weight	271 kg		
P.Dimensions	940 x 910 x	1470 mm	(L x W x H)

TF178 Shrinkage Template & Ruler

Shrinkage Template & Ruler, is suitable for all shrinkage testing standards. With high transparent plexiglass plate and the unique design on appearance, it combines the different test standards in one template, including 500 mm, 350 mm, 250 mm. Frame size is 610 mm x 610 mm; Shrinkage Scale is $0\% \sim 20\%$, and Stretch Scale is $0\% \sim 20\%$.

Specifications

- Dimension of template 250 mm, 350 mm, 500 mm
- Shrinkage Scale 0%~20%
 - Stretch Scale 0%~20%

Standards ISO 3759

G.Weight 5 kg P.Dimensions 680 x 660 x 90 mm (L x W x H)

TF210 Martindale Abrasion & Pilling Tester

Martindale Abrasion & Pilling Tester, is to determine the abrasion and pilling resistance of all kinds of textile structures. Samples are rubbed against known abrasives at low pressures and in continuously changing directions. The amount of abrasion or pilling is compared against standard parameters.

The unique design of our Martindale abrasion tester allows removal of individual sample holders for examination without lifting the top motion plate. It provides individual counters and parking function, interval time settable and a large touch-screen display. The Martindale abrasion tester is available with 4, 6 or 9 test positions.

Specifications

Drive system is PLC, programmable control with large touch-screen Abrasion test

- a) Max stroke of movement 60.5 ± 0.5 mm
- b) Weight of holder and spindle $198 \pm 2 \text{ g}$

Pilling test

- a) Max stroke of movement 24 ± 0.5 mm
- b) Weight of holder and spindle $155 \pm 1 \text{ g}$
- c) Spacing between the friction head and upper board 7.5 ± 0.1 mm

Included Accessories (1 for each station)

- Abrasion test (To ISO 12947-1)
- a) Mounting weight (2.5+/-0.5 kg, for both abrasion and pilling test)
- b) Abrasion tester holders (Dia. 38 mm)
- c) Loading Weights (395+/-7g)
- d) Loading Weights (595+/-7g)
- Pilling Test (To ISO 12945-2)
- a) Linear adaptor. To convert to straight-line motion
- b) Sample Retaining Rings for pilling test
- c) Pilling test holders (Dia. 90 mm)
- d) Loading Weights (260+/-1 g)
- 1 Auxiliary device for specimen

1 Drawing pen

1 set of abradent fabric, wool felt, backing foam for each work station

Standards

ISO 12945-2-2020, ISO 12947-1-1998, ISO 12947-2-1998, ISO 12947-3-1998, ISO 12947-4-1998, GB/T 21196.1-2007, GB/T 21196.2-2007, GB/T 21196.3-2007, GB/T 21196.4-2007, GB/T 4802.2-2008, BS EN 530-2010, ASTM D4970/4970M-2016e3, ASTM D 4966-12

Optional Standards

BS EN 388-2016+A1-2018, SATRA TM 31 A/B, PUMA, BS EN 16094-2012, ISO 20344-2011

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Optional orders

- a) Specimen Cutter. (Dia. 38 mm)
- b) Abrasive Fabric & Backing Felt Cutter. (Dia. 140 mm)
- c) Standard Wool Abrasive Fabric (5 m/pack)
 - d) Standard Backing Foam
 - e) Standard Wool Felt pads 90 mm
 - f) Standard Wool Felt pads 140 mm
 - g) EMPA Photographic Standards for Pilling Test (3 x 4 knitted)
 - h) EMPA Photographic Standards for Pilling Test (3 x 4 woven)
 - i) SM 50 Photographs for Pilling Test IWS + ASTM

Power	220 / 110 V	50 / 60 Hz
G.Weight	118 kg, 139 kg	g, 160 kg
	A: 790 x 650 >	600 mm (L x W x H)
P.Dimension	B: 1040 x 760 x 690 mm	
	D: 1040 x 760	x 690 mm

TF211 Pilling Assessment Viewer

Pilling Assessment Viewer / Viewing cabinet, is suitable for all standards where the assessment of pilling on fabrics is necessary, either against control fabrics or photographs.

The viewer is suitable for the following tests: Martindale Pilling, Random Tumble Pilling, ICI Pilling, ICI Snagging and Brush/Sponge Pilling.

Specifications

• Observe zone 340 x 165 x 240 mm

Standards	ISO 12945		
Power	220 / 110 V	50 / 60 Hz	1 A
G.Weight	7 kg		
P.Dimensions	380 x 310 x 370 mm (L x W x H)		

TF212 Oscillatory / Wyzenbeek Abrasion Tester

Wyzenbeek Abrasion Tester, made of modern ergonomic design, is to determine the abrasion resistance of fabrics when rubbed against a standard abrasive or a wire mesh screen with a backward and forward motion over a curved surface. Wyzenbeek abrasion tester applies to automotive and furniture industry fabric manufacturers working to US standards motor driven with 4 abrasion heads and electronic digital counter to control the number of cycles.

Specifications

- Suction manifolds to connect to auxiliary vacuum cleaner
- Sealed transmission drive for quieter operation
- Testing stations
 4 groups
- Oscillatory frequency 90 CPM
- Oscillatory arc 76 mm
- Dimension of sample 245 x 73 mm
- Tension on sample 4 lbf (17.8 N), adjustable
- Load on sample 3 lbf (13.4 N), adjustable

Standard Accessories

- Rubber Pads for Wyzenbeek
 4
- Wire mesh screens for Wyzenbeek 1
- Vacuum cleaner
 1
- Sampling plate 1

Consumables (Optional order)

- Rubber Pads for Wyzenbeek (pack of 8)
- Wire mesh screens for Wyzenbeek (pack of 4)
- Abrasive Fabric #10 Cotton Duck 60 in x 5yds





Standards

ASTM D4157, ASTM D3597

Power G.Weight P.Dimensions 220 / 110 V 50 / 60 Hz 3 A 101 kg 980 x 640 x 920 mm (L x W x H)

TF213 Universal Wear Tester

Universal Wear Tester, is to determine the wear and abrasion resistance of fabric used in clothing, footwear and industries. Universal Wear Tester supplies with surface abrasion head (inflated diaphragm method) and flex abrasion head as well as necessary weights and blades. Accessories are available on request for conducting frosting, pilling and edge abrasion tests.

Universal Wear Tester is fitted with built-in timer and mechanical cycle counter; repeatable and reproducible testing is ensured by consistent motor speed providing 120 double strokes per minute of 25mm (1in) stroke length. Improved air injection system for more uniform inflation of the diaphragm used in surface abrasion testing, and a superior clamping mechanism for repeatable specimen tension.

Specifications

- Rotation Speed 100rpm(adjustable) 25 mm
 - Measuring Range
- Touch panel
- Depth Abrasion kits
- Surface Abrasion kits
- Flex Abrasion kits

Optional order

- Frosting Attachment
- Edge and Fold Abrasion Clamp
- Elastomeric Friction Pad and Base Pad
- Photographic Standards for ASTM D 3514
- Abrasive '0' 50 yd/roll Abrasive '600A' 50 yd/roll
- Abrasive '320J' 50 yd/roll



Standards

ASTM D3514/D3885/D3886, AATCC 119/120			
Power	220 / 110 V	50 / 60 Hz	
G.Weight	80 kg		
P.Dimensions	790 x 540 x 730 mm (L x W x H)		

TF214 A/B Taber Abrasion Tester

Taber Abrasion Tester (Taber Abraser), is to determine the wear resistance of all kinds of structures including fabrics, leather and rubber, paper, metals, paints, plated surfaces, coated materials, glass, etc.

Taber Abrasion Tester (Taber Abraser) uses the X pattern of abrasion produced by a rotary action of a pair of abrasive wheels. Taber abraser supplies with a full range of auxiliary weights, specimen holders. The abrasive wheels and wheel refacer are offered on request.

52.4 mm

Specifications

- Wear Round Centre Spacing
 - Gyration Speed
- Counter
- Weights
- 0-999,999 times
 - 2pcs 250g, 2pcs 750g (used to produce 250g, 500 g, 1000 g mass on the specimen)

Optional order

- Grinding Wheel CS 17 / CS 10 or others
- Paster S 36
- Sandpaper S 11

Models

- TF214A Taber Abrasion Tester 1 station
- TF214B Taber Abrasion Tester 2 stations

Standards

Optional Standards

ISO 5470-1, GB/T 1768, ASTM D3884, ASTM D3389 ASTM D4060

60±1 rpm or 72±1 rpm(depend on the power supply)

(Pictures for reference only, will update)

Power	220 / 110 V 50 / 60 Hz
G.Weight	41 kg, 55 kg
P.Dimensions	650 x 640 x 490 mm (L x W x H)
	740 x 660 x 540 mm (L x W x H)

TF215 DIN Abrasion Tester

DIN Abrasion Tester, is to determine abrasion of flexible materials, such as rubber, tires, transmission belts, soles, leather, etc. The abrasion tester is provided with a wide testing area to meet the most requests. Additional balance is required.

Dia. 150 x Length 460 mm

4.2 mm each rotation

Specifications

- Load Weight
- Roll Dim
- **Rotation Speed** ٠
- Holder Moving Distance

Standard Accessories

- Gauge
- Pre-grinding block
- Sampling plate
- Brush
 - Weights 2.5N, 5N

Optional Accessories

- Weights
- Sandpaper 475*410MM / sheet
- Standard calibration rubber 181*181*8 MM / sheet

ISO 20344 - 8.4, ASTM D5963, GB/T 9867, SATRA TM174 Standards

5 N, 10 N

40rpm

Optional Standards ISO 4649

220 / 110 V 50 / 60 Hz 3 A 67 kg **P.Dimensions** 900 x 470 x 600 mm (L x W x H)

TF216 MIE Abrasion Tester

MIE Abrasion Tester, is to determine the wear resistance of textiles used for the automobile such as the interior material made of woven, knit, composite, coated fabrics by rubbing against an abrasive cloth.

This abrasion tester is mostly used for Renault and Peugeot.

Specifications

- 2 x 2 test positions. Each pair of tests runs at the same time
- The 2 couples can perform tests independently or simultaneously
- Large Touch panel to program or monitor the duration of each test station test program for each cycle speed, etc.
- Rubbing table is 90 +/-1 width
- Rubbing stroke is 150 mm
- Rubbing speed is 30cpm

Standard Accessories

- Sampling plate
- Abrasion head 5kg
- Weight 2kg

Standards Renault - PSA D44 1073

Power	220 / 110 V	50 / 60 Hz 3 A
G.Weight	96 kg	
P.Dimensions	860 x 610 x	670 mm (L x W x H)





Power

G.Weight

TF220 ICI Mace Snag Tester

ICI Mace Snag Tester, is to determine the tendency of fabrics to snag (pull yarn loops from fabric) in normal wear (mace snag). Provided with 4 rotating test cylinders, fitted with sleeves of test fabric, mace balls with tungsten carbide points and controlled by a predetermined electronic counter.

31.75 mm

160 g

Specifications

- Snag Mace Diameter
- Mace Weight
- Mace Prominent length 10 mm 60+/-2rpm
- Rotation Speed •

Standard Accessories

- Measuring tape 45mm
- Take sample plate
- Wool felt cover ٠
- Nail hammer

Optional order

- **Tungsten Carbide Points** (Pack of 12)
- Felt Sleeves (Pack of 4)
- **Snagging Photographs**

ASTM D3939, GB/T 11047, JIS L1058 Standards

20r/min

Dia. 200mm

8 pcs / Cylinder

2



(Pictures for reference only, will update)

Power	220 / 110 V	50 / 60 Hz
G.Weight	122 kg	
P.Dimensions	1020 x 600 x 540 mm (L x W x H)	

TF221 Bean Bag Snag Tester

Bean Bag Snag Tester, to determine the snagging and picking resistance of knitted and woven fabrics by tumbling fabrics pillows containing a weighted bean bag within two separate test cylinders.

The bean bag snagging tester provides with eight pinned bars, rotating at 20RPM for 100 revolutions. Provided with predetermined electronic counter.

Specification

- Rotation speed
- Work stations
- Size of cylinder •
- Pinned bars •
- Needles
- 9 pcs / Pinned bar Weight of Bean Bag 450+/-10g
- Specimen Template 215 x 115 mm

Optional Accessories

- Bean bag 450 g
- Steel needle

Standards ASTM D5362, JIS L1058



Brush or Sponge Pilling Tester, is to determine the pilling propensity and simulate normal wear of knitted and woven fabrics used in apparel and automotive interiors by brush and / or sponging specimens together in a circular motion to form pills. Specimens are evaluated under standard lighting conditions using a pilling assessment viewer, light cabinet or similar, against users' standard fabrics or pilling photographs.

Specification

 Circle sample holder Height of Nylon brush Consists of Rotation speed 		660 g 24 mm 6 holders with polyurethane foam, rubber rings, sandpaper 58 r/min
Standards	ASTM D3511	
Power G.Weight P.Dimensions	220 / 110 V 102 kg 1170 x 620 x 6	50 / 60 Hz 50 mm (L x W x H)



Power 220 / 110 V 50 / 60 Hz 3A G.Weight 75 kg P.Dimensions 650 x 580 x 630 mm (L x W x H)



TF223A/B ICI Pilling Tester

ICI Pilling Tester / Pilling Box, is to rapidly replicate pilling on fabrics in a fraction of the time due to normal wear.

ICI pilling tester uses a universal drive system with 2 or 4 position, electronic digital counter, and sample mounting fixture. The machine accepts ICI Pilling boxes and ICI pilling drums.

Specifications

- Rotation Speed
 - Control Mode Single chip control

60 +/ -2 rpm

Touch panel

Optional Accessories

- Pilling Assessment Viewer
- Photographic Standards
- Mounting Jig (used to install specimens easily)
- Cork liner pack of 6
- Rubber tube pack of 4

Optional Standards

- SnagPod for BS 8479
- Snagging pins for JIS L1058
- Pilling Drum for M&S P18, P19

Models

- TF223A ICI Pilling Tester 2 stations
- TF223B ICI Pilling Tester 4 stations

TF224A/B Random Tumble Pilling Tester

Random Tumble Pilling Tester, is to determine the pilling and fuzzing characteristics of textile fabrics.

Random Tumble Pilling Tester uses stainless steel impellers that rotate within individually lit aluminum chambers constantly tumbling test fabrics against cork liners for a pre-determined time controlled by a timer and audible alarm.

Compressed air is also injected into the chamber to assist in the tumbling action. With 2 or 4 pilling test chambers. Laboratory standard compressed air supply is required.

Specifications

- Number of test chambers 2, 4
- Size of test chambers Dia. 146 ± 1 mm
- Rotation speed 1200 r/min

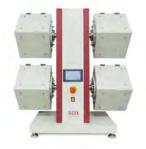
Optional order

- Cork Liner (Pack of 50)
- Cotton Sliver (pack of 9m)
- ASTM D 3512 Photographic Standards

Models

- TF224A Random Tumble Pilling Tester 2 stations
- TF224B Random Tumble Pilling Tester 4 stations

Standards ASTM D3512



Standards

Optional

Power

Standards

G.Weight

P.Dimensions

ISO 12945-1, GB/T 4802.3, NEXT TM19 BS 8479, JIS L1058 method D-2 220 / 110 V 50 / 60 Hz 76 kg 118 kg

76 kg, 118 kg 890 x 500 x 660 mm 940 x 490 x 1010 mm (L x W x H)



Power	220 / 110 V	50 / 60 Hz
G.Weight	65 kg, 96 kg	
P.Dimensions	610 x 460 x 680 mm (L x W x H) 890 x 480 x 730 mm (L x W x H)	

TF225 Circular Locus Tester

Circular Locus Tester, is to determine surface deterioration and quality of fabrics (wool, chemical fiber, mixed, kitted and woven fabrics). Using an active friction system, fabric is rubbed against a nylon brush and abrasive or an abrasive only under controlled conditions. Results of the test are achieved in minutes. The relative motion of the locus specimen grip and the abrasive platform is a circle with a relative speed of 60+/-1 r/min. The grip offers pressure to the specimen which is adjustable with a tolerance of +/-1%. For added control and safety, the machine is equipped with a self-stop switch.

Specifications

- Test motionTest speed
- Circular Locus of Dia. 40 mm $60 \pm 1 \text{ r/min}$
- Height of brush
- 2 ~ 12 mm, adjustable
- Pressure on specimen 4
- Dimension of specimen
- Counter
- 490cN, 590cN, 780cN. Dia. 113 ± 0.5 mm (100 cm²)
- 1 ~ 9,999 times, stops automatically

Optional orders

- Standard Photograph for GB/T4802.1
- Standard Abradant Gabardine
- Standard Backing Foam
- Standard Brush Set



Standards

GB/T 4802.1

 Power
 220 / 110 V
 50 / 60 Hz

 G.Weight
 50 kg

 P.Dimensions
 700 x 520 x 540 mm (L x W x H)

TF310 45 Degree Flammability Tester

45 Degree Flammability Tester, is to determine the fabric flammability (fabric burning test) under controlled conditions. Automatic igniter is equipped to ensure the 45 degree fabric flammability tester safe and easy to operate.

Stainless steel test cabinet with glass observation panel provides with automatic timing of flame spread in 0.1-second increments from ignition. Brushing Device is included.

It is also suitable to evaluate the flammability of medical textiles such as medical face masks, surgical gowns, protective clothing and drapes.

Specifications

- Time Display and Accuracy
- Ignition Time
- Dimension of Holder
- Size of Testing Chamber
- Distance from Nozzle to Specimen
- Flame Height
 - Angle of Sample Placement
- Loading Weight
- Dimension of Specimen

Included Accessories

- 1 Brushing device
- 5 sets of sample holder
- 16mm Flame gauge
- Sampling plate
- 30g Weight

Optional order

• #50 Mercerized cotton thread

TF310C Dry Cleaning and Washing Cylinder

Dry Cleaning and Washing Cylinder, to determine color fastness to dry-cleaning and chlorinated pool water (AATCC 162), is applied to prepare samples for flammability testing of standard 16CFR-1610. Comprises stainless steel rotating test chamber of 7650ml capacity, ang variable speed drive with digital timer and displays. A drain valve is equipped in the bottom of the cylinder.

Specifications

- Touch panel
- Angle of cylinder axis 50
- Stainless steel made
 - Rotation speed 45
- Counter

•

45 ~ 50rpm 1 ~ 9999mins, automatically stops

Optional Accessories

- AATCC gray scale
- AATCC 162 test control fabric
- TD110 Wringer (Lab Padder)

Standards AATCC 162 Method B

Power	220 V	50 / 60 Hz	3 A
G.Weight	74 kg		
P.Dimensions	850 x 63	80 x 740 mm (L x W x H)

0-999.9s, 0.1s $1 \pm 0.05s$ outside 170 x 101 mm, interior 152 x 38 mm $368 \times 216 \times 356$ mm 8 mm, adjustable 16 mm, adjustable 45° 30 g 150×50 mm



Standards	ASTM D1230, GB/T 14644	16 CFR -1610	,
Power G.Weight	220 / 110 V 46 kg	50 / 60 Hz	3 A
P.Dimensions	5	10 mm (L x W	x H)

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-		
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TF311 Horizontal Flammability Tester

Horizontal Flammability Tester, is to determine the comparative burn rates and burn resistance of textiles, particularly those for automotive interior use. Automatic igniter is equipped to ensure the horizontal flammability tester is safe and easy to operate, comprising draft free stainless-steel cabinet with observation window, sample holder and door mounted burner.

Adopting flow meter imported from USA, Dwyer brand can accurately measure the total amount of fluid in the interval.

Specifications

- Fire nozzle dia. 9.5 mm
- Fire height 38 mm+/-2
- Sample clamp 360 x 100 mm / Interior dimension 330 x 50 mm •
- The sample below 25 mm pitch between metal wire is 25 mm
- Marked line Starting point 38 mm / End point 292mm from Ignition point Nozzle to Sample 19 mm

Standards	ISO 3795, GB/T 8410, DIN 75200, ISO 17074
0	

Optional Standards FMVSS 302 (Φ 10mm Flame nozzle)

TF312 Vertical Flammability Chamber

Vertical Flammability Chamber, is for measuring the vertical flame spread of children's sleepwear, fabrics (fabric burn test), and other textile materials or resilient filling materials used in upholstered furniture.

The burner ignites the specimen automatically, and ignition time is programmable; after-flame time and afterglow time are timed automatically and shown on the display. User-friendly design of the control panel, touch screen is equipped to make the operation conveniently, and the test results are displayed on the screen after test.

Comprises a draft free stainless-steel flammability chamber with observation window for easy test viewing. Specimen holders, burner and associated hardware are dependent on the test standard and must be specified.

Specifications

- System and display
- Time Display and accuracy
- Ignition time
- Burner size
- burner to specimen
- Dimension of holder .
- Timing

Standard Accessories

Weights

- Specimen holder
- Flame measuring tape
- Steel ruler

Sampling plate

Standards

Optional Standards

ASTM D6413 16CFR Parts 1615/1616, CALIF TB117 Method A, CPAI 84, GB/T 5455

Programmable PLC and touch screen control 0-999.9s, 0.1s 12+/-0.2s or 3+/-0.2s Dia. 10 mm / 11 mm x barrel length 76+/-6 mm 19 or 17 mm outside 442 x 76 / 442 x 89 mm, interior 356 x 51 mm

PLC controlled



Power	
G.Weight	
P.Dimensions	

220 / 110 V 50 / 60 Hz 3 A 48 kg 640 x 520 x 760 mm (L x W x H)



Power 220 / 110 V G.Weight 72 kg P.Dimensions

50 / 60 Hz 2 A 690 x 640 x 1140 mm (L x W x H)

TF316 Blanket Flammability Tester

Blanket Flammability Tester, is to determine the ignition resistance property of blanket fabrics and surface flame spread performance of fabric. A standardized flame is applied to the surface of specimen for a special time under controlled conditions, and burning, changing, or discoloration of a paper monitor is noted to classify flammability of tested fabric.

Adopting flow meter imported from USA, Dwyer brand can accurately measure the total amount of fluid in the interval.

Specifications

Standards

- Transparent viewing window
- Flame length is adjustable
- Ignition time freely preset
- Timer accuracy up to 0.1 second

	-	
Power	220 V	50 Hz
G.Weight	48 kg	
P.Dimensions	610 x 48	30 x 710 mm (L x W x H)

ASTM D4151

TT200 Toy Flammability Tester

Toy Flammability Tester, is to determine the flammability resistance of finery or toy and children clothing. The toy flammability tester is mainly for evaluating the burning speed and time of the following kinds of toys or children stuff.

- Toys to be worn on the head, such as beards, wig, mask, etc.
- Toy disguise costumes and toys intended to be worn by a child in play, such as cowboy suits, nurse's outfits, long flowing capes, etc.
- Toys intended to be entered by a child, such as toy tents, puppet theatres, wigwams and play tunnels.
- Soft filled toys (animals and dolls, etc.) with a piled or textile surface.
- System and Display: programmable PLC system to control automatically and display text

Specifications

- Time display and accuracy 0-999.9s,0.1s
- Burner size according to ISO 6941
- Burner can be positioned to vertical or 45 degree
- Equipped with U-shape holder and hanging holder
- PLC controlled

Standards BS EN 71-2

TF318 SPI Flammability Tester (Vinyl Material)

SPI Flammability Tester (Vinyl Material), is to determine the ignition properties of vinyl plastic film material according to CFR 16 Part 1611 – U.S.A.

The rate of burning shall not exceed 1.2 in./s as judged by the average of five determinations lengthwise and five determinations transverse to the direction of processing, when specimen is placed at an angle of 45 degree and exposed to the standardized flame (22# fire nozzle, 1/2 inch. in length).

Specifications

- The most advanced thread locking device and sample holder save 80% of operation time that faster than another suppliers' design
- Equipped with photoelectricity sensor accurately and automatically record burning time with no damage ensures 5 years life or longer
- Timer accuracy is up to 0.01 second
- 22# needle flame, 9/16inch from the specimen, flame length adjusted by flow-valve;
- Timing distance of burning 6 inches

Standard Accessories

- Specimen Fixture
- Flame measuring tape
- Sampling plate

Standards CFR 16 Part 1611





Power	220 / 110 V	50 / 60 Hz
G.Weight	95 kg	
P.Dimensions	720 x 680 x 1	.220 mm (L x W x H)



 Power
 220 / 110 V
 50 / 60 Hz

 G.Weight
 42 kg

 P.Dimensions
 520 x 500 x 710 mm (L x W x H)

TF319 Multi-purpose Flammability Tester

Multi-purpose Flammability Tester, is to determine the flammability resistance of textile fabrics and for the flammability test of toys and toy materials.

Its vertical test frame with changeable specimen holders and burner covers offer a wide range of vertical oriented textile fabrics. This machine meets almost all the BS, EN, ISO and other similar standards which is defined as a test method that a vertical oriented fabric subject to a small flame.

Specifications

- Meets most vertical oriented tests
- Programmable PLC system, optical scanning devices for threads breaking detection, timing range 0-999.9s and accuracy 0.1s
- Automatic flame ignition and flame, automatic gas open / off
- Automatic change for butane gas and propane gas
- Easy-set device for burner position (surface & edge ignition, toys test)
- Detachable controller ensures safety of operator
- interchangeable, precision test frames for different standards

filter paper

- Vertical and horizontal marker threads
- Tray for filter paper and test debris

Standard Accessories

- Flame measuring tape
- Burner gauges
- Sampling plate
- Fixtures

Optional consumables

Optional Standards

- BS EN 71-2:2020
- ISO 10047:1993
- BS EN ISO 15025:2016
- BS 5438:1989

TF320 NFPA 701-1 Flammability Tester

NFPA 701-1 Flammability Tester, is to determine the ignition resistance properties of draperies and other hanging fabrics according to test method NFPA 701#1, and it is suitable for single-layer or multi-layer fabrics, but not suitable for fabrics with density larger than $700g/m^2$ (21oz/yd²).

Specifications

- Open-type burning chamber structure;
- Chamber body in calcium silicate board, and wrapped by stainless steel external;
- Standard Maker laboratory burner;
- Record burning time automatically;
- Auto-ignition mode to avoid operative error;
- Timer accuracy up to 0.1second;
- Provide with a standard specimen holder.

Standards NFPA 701-2004 Test Method 1



ISO 6940:2004, ISO 6941:2003, BS EN ISO 1102:2016, BS EN ISO 1103:2005, BS EN 14878:2007, ECE R118 ANNEX8

Power	220 / 110 V	50 / 60 Hz
G.Weight	100 kg	
Dimensions	Bracket	
	600 x 650 x 99	90 mm (L x W x H)
	Controller	
	340 x 300 x 36	50 mm (L x W x H)
P.Dimensions	740 x 710 x 12	210 mm (L x W x H)

Standards



Power	220 / 110 V	50 / 60 Hz
Weight	100 kg	
Dimensions	900 x 510 x 72	0 mm (L x W x

H)

TF322 Upholstery Flammability Test Rig

Upholstery Flammability Test Rig, is to determine the ignition resistance properties of material combinations for upholstered seating. The test rigs are covered with the standard foam and the fabric under test. The assembly is then ignited using one of the standard ignition sources and the combustion process is monitored.

Included

- BS 5852 Test Rig Big
- BS 5852 Test Rig Small

Optional order

- BS 5852 Standard Cigarettes
- BS 5852 fire source, Crib 4
- BS 5852 fire source, Crib 5
- BS 5852 Standard White Shell Fabric
- BS 5852 Fire Resistance Foam
- BS 5852 Non-Fire Resistance Foam

Standards BS 5852 Part 1 / Part 2, ISO 8191 Part 1 / Part 2, EN 1021-1

Weight	big 15kg, small 10kg
Dimensions	big 450 x 300 x 450 mm (L x W x H)
	small 450 x 150 x 300 mm (L x W x H)

TF328 UL94 Horizontal & Vertical Flammability Tester

UL94 Horizontal &Vertical Flammability Tester, is used to determine the flammability of plastic materials for parts in devices and appliances. The apparatus is supplied as a complete system incorporating all the features necessary for ease of use safety. It conforms to all five UL 94 horizontal and vertical burner tests and associated ASTM international standards.

Specifications and Features

- A bench mounted draft free combustion chamber having a large inside volume of 1.0m3 and fitted with an interior light and exhaust fan to enable simple evacuation of combustion products.
- Large door and window made from toughened safety glass giving a generous view of the specimen during a test.
- Specimen holders.
- Fully adjustable horizontal and vertical specimen supports.
- A burner in compliance with ASTM D 5025, with simple angle adjustment (0°, 20°, 45°) and precision gas control system including gas flow meter, pressure regulator and pressure gauge.
- Two access ports enabling easy entry to the chamber for movement of the burner and specimen.
- A burner wing tip.
- Three digital test duration timers for accurate but simplified operation.

Standards UL94-2020(HB, V-0 / V-1 / V-2, 5VA / 5VB, VTM-0 / VTM-1 / VTM-2, HBF / HF-1 / HF-2), ASTM D635-2018, ASTM D3801-19, IEC 60695-11-10-2013, IEC 60695-11-20-2015, ISO 9772-2020, ISO 9773-1998, GB/T 2408-2008, GB/T 8332-2008

Optional standards ASTM D5207



 Power
 220 / 110 V
 50 / 60 Hz

 G.Weight
 167 kg

 P.Dimensions
 1200 x 910 x 1600 mm (L x W x H)



TF342 Wire & Cable Vertical Flame Tester

Wire&Cable Vertical Flame Tester is mainly for conductor diameter greater than 0.8mm (cross-sectional area greater than 0.5mm²) less than 80mm (cross-sectional area less than 5000mm²) of the single wire and cable combustibility performance assessment. Applicable to lighting equipment, low-voltage electrical appliances, household appliances, machine tools, electric motors, electric tools, electronic instruments, electrical instruments, electrical connections and accessories and other electrical and electronic products and their component parts of the research, production and quality inspection departments.

150mm (adjustable) 0-999.9s \pm 0.1s adjustable

45°

0~1000℃

Specifications

- Burner
- Test inclination
- Flame height
- Ignition time
- Continued flame time
- Combustion gas
- Flow pressure
- Temperature test range
- Temperature test range
- Flame temperature requirement
- from 100 $^\circ\!\!\mathbb{C}\pm5\,^\circ\!\!\mathbb{C}$ to 700 $^\circ\!\!\mathbb{C}\pm3\,^\circ\!\!\mathbb{C}$ within 45 sec ±5 sec
- Temperature measurement thermocouple
- Φ 0.5mm imported armored thermocouple (K type)
- Test process

test program automatic control stainless steel chassis

Inner diameter Φ 12mm \pm 0.5mm

0-999.9s \pm 0.1s, automatic recording, manual pause 95% propane gas (LPG can be used instead in general)

with dual flow meter and pressure gauge (gas and air)

Box material

Optional Accessories

- Thermocouple
- Ventilation cabinet

TF346 Glow Wire Tester

Glow Wire Tester, is to determine the fire hazard of electrical parts and components subjected to malfunctions such as overload, short circuit, poor connection, or others that may ignite and spread the flame to the rest of the product.

The Glow-Wire Tester simulates an overloaded resistor or other ignition source and applies heat to the specimen for a short period of time, and simulates as closely as possible actual effects occurring in practice.

A temperature controller is fitted with the thermocouple supplied, accurately measuring the glow wire temperature. The electrical circuit of the control unit is fully protected by fuses and a miniature circuit breaker. TESTEX Glow-Wire Tester is a fully automatic instrument contained in its own cabinet to maximize the safety of the operator, and large viewing window and black colored walls ensure convenient observation.

Ø 4 mm ± 0.04 mm Ni/Cr (80/20), standard

Specifications

- Glow Wire
- Temperature Range indoor temperature ~ 960°C, adjustable
- Sample pressure 1N ± 0.2 N
- Test speed 18 ± 3 mm/s
- Test mode
 automatic control, independent convulsions
- Chamber ≥0.5 m³
- Control single chip microcomputer + touch screen control

Standards IEC 60695-2-10, 11, 12, 13, ASTM D6194, GB/T 5169.10~13



 Standard
 IEC 60332-1, GB/T 18380.11-13

 Power
 220 / 110 V
 50Hz / 60 Hz
 100 W

 G.Weight
 112 kg
 P.Dimensions 700 x 690 x 1540 mm (L x W x H)



Power	220 / 110 V	50 / 60 Hz	
G.Weight	183 kg		
P.Dimensions	1100 x 890 x	1580 mm (L x W x H	I)

TF360 Needle Flame Tester

Needle Flame Tester, for determining the fire hazard of insulation and flammability materials used inside electrical and electronic products when they are ignited by the components, the test flame does not cause ignition, or the combustible portion ignited by the test flame has a limited burn time or a limited burn range and does not spread as the flame or burning or glowing particles fall from the test specimen.

The needle flame tester consists of a 0.9 mm diameter needle burner that is tilted 45 degrees from the vertical and fueled by butane gas. The fire hazard of the specimen is assessed by measuring the burning time of the specimen and any ignition of the wrapped tissue and white pine boards beneath the specimen.

Specifications

- diameter 0.9 mm (inner diameter 0.5 mm), 35 mm (length) Needle burner ٠
- Burner angle $0,^{\circ} 20^{\circ}, 45^{\circ}$ adjustable
- Flame height $12mm \pm 1mm$ ٠
- Range

•

- $\begin{array}{cccc} 0 \sim 1000 & \circ & C \\ 100 & \circ & C & \pm & 2 & \circ & C \sim 700 & \circ & C & \pm & 3 & \circ & C \\ \end{array}$ Flame temperature
- 5 seconds \pm 1 second (adjustable) Flame time
- Standard copper block $4mm \pm 0.01mm$, weight before drilling $0.58g \pm 0.01g$ •
- Automatic control of the test process, independent jerk ٠
- Test chamber ≥ 0.5m3
- Control single chip microcomputer + touch screen control •

Standards EC60695-11-5, GB/T 5169.5, GB 4706.1



Power	220 / 110 V	50 / 60 Hz
Weight	90 kg	
Dimensions	1100 x 700 x	1300 mm (L x W x H)

Color Fastness

TU300A/B/C/D Color Light Box

Color Light Box / Color Matching Cabinet, is used for color matching or assessment of all industries and where there is a need to maintain color consistency and quality. e.g. automotive, ceramics, cosmetics, foodstuffs, footwear, furniture, knitwear, leather, ophthalmic, dyeing, packaging, printing, inks and textile.

It is very important to use standard light source to check color difference on night duty. Besides D65 light source, TL84, CWF, UV, and F/A light sources are available in this color light box for metamerism effect.

Specifications

- Color matching cabinets provide several light sources, i.e. D65, TL84, CWF, UV, F/A.
- Microcomputer to switch between the light sources quickly.
- Super timing function to record use time of each light source separately.
- All fittings are improved, ensuring quality.

Optional order Viewing Board 2kg



Model	Light Sources	Packaging Dimension(mm)	G. Weight			
TU300A	D65, TL84, F, UV	850 x 570 x 500	46 kg	Standards	ASTM D1729	, BS 950 PART1, M&S
TU300B	D65, TL84, CWF, F, UV	850 x 570 x 610	51 kg	Standards	C1/C2	, bo 550 i Aiti , Mao
TU300C	D65, TL84, CWF, F, UV, U30	860 x 510 x 690	51 kg	-	- , -	50 / 60 / 1
TU300D	D65, TL84, CWF, F, A, UV, U30	880 x 700 x 540	57 kg	Power	220 / 110 V	50 / 60 Hz

TU320 Precise Lab Oven / Incubator

Precise Lab Oven, is for dual-purpose which is forced-air convection can provide direct assistance as well as reliable guarantee to colleges, scientific research institutes and laboratories.

Features

- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable
- Large LCD display
- 25 mm dia. test hold in the left side of Chamber
- Microprocessor temperature controller ensures a precise and reliable control
- Uniform distribution of air temperature
- Forced-air convection
- Double layer glass door, larger viewing window
- Forced-air and heating stops automatically once the door opened

Specifications

- Temp. Range: RT-200℃
- Temp. Accuracy: 0.1°C
- Ambient Temp.: +5-40℃
- Timing Range: 1-9999 min
- Shelves: 2 pcs (40 L & 70 L), 3pcs (140 L & 240 L)
- Interior size:
- 40L 350*300*400 mm (WxDxH), 70L 400*320*550 mm (WxDxH) 140L 500*380*750 mm (WxDxH), 240L 600*450*900 mm (WxDxH)



Dimensions

40L 340 x 300 x 400 mm (WxDxH), 70L 490 x 580 x 600 mm (WxDxH) 140L 655 x 715 x 980 mm (WxDxH) 240L 755 x 785 x1130 mm(WxDxH) Temperature & Humidity Chamber, is used for the conditioning of samples prior to testing, also applied for Water Vapour Permeability Testing when equipped with related kits.

It can simulate a variety of temperature and humidity conditions for environmental testing. It has influence on products or materials in a range of temperature and humidity conditions, suitable for the samples which be processed in certain temperature or humidity conditions, and standards with specified environmental requirements.

Specifications

- Capacity: 80L/150L/225L/408L/800L/1000L •
- Display: Touch-screen Display •
- System: PLC system, programmable
- Temperature Range: -20℃ ~ 150℃, -40℃ ~ 150℃, -60℃ ~ 150℃ •
- Humidity Range: 20%-98% •
- Time Display: 0-99999h •
- Testing Area: ≥3000 mm² •
- Out chamber: Paint steel chamber
- Inner chamber: SUS304 Stainless Steel

Capacity	Internal Test Chamber Dimen (mm)	sion	Packing Dimension (mm)	G. Weight
80L	400 x 500 x 400		1070 x 970 x 1700	312 kg
150L	500 x 600 x 500		1110 x 1070 x 1800	380 kg
225L	500 x 750 x 600		1170 x 1160 x 1880	418 kg
408L	600 x 850 x 800		1420 X 1350 X 1970	553 kg
800L	1000 x 1000 x 800		1390 x 1300 x 1730	610 kg
1000L	1000 x 1000 x 1000		1390 x 1300 x 1930	650 kg
Power		220 V 380 V	50 Hz 50 Hz	

TU380 Salt Spray Tester

Salt Spray Tester, is used to test the anti-erosion quality of the surface of all materials after the rust-proof of painting, coating, electroplating, anodizing and rust-proof of greasing.

Specifications

- Test chamber •
- Temp. Test •
- Temp. Air •
- Interior Dimension
- External Dimension •
- Test solution volume

108 L or 270L NSS.ACSS 35°C ±1°C, optional CASS 50°C ±1°C NSS.ACSS 47℃±1℃, optional CASS 63℃±1℃ 600 x 450 x 400 mm or 900 x 600 x 500 mm 1060 x 570 x 1060 mm or 1420 x 980 x 1285 mm 15 L

Standards ASTM B117, GB/T 2423.17

220 V 50 Hz 4 KW / 6KW Power 164 kg / 190 kg G.Weight 1120 x 830 x 1260 mm / 1590 x 1100 x 1410 mm P.Dimensions

TF410 Manual Crockmeter

Manual Crockmeter, is to determine the colour fastness of textiles to dry or wet rubbing. The new Crockmeter is equipped with an electronic counter, and handle is on the top to take it easily. A sandpaper is set under the test sample so that the sample is fixed during test, making the rubbing color fastness test repeatable.

Specification

•	Rubbing head	Dia.16 mm
•	Vertical pressure	9N+/-10%

Rubbing stroke 104 mm

Included Accessories

- AATCC Crockmeter Squares 1 box (200pcs)
- Sandpaper 2 (pcs)
- 2 (Pcs) Ring .
- Sample sink
- Sampling plate 1 (Pcs) 1 (Pcs)

Standards ISO 105x12/D02, AATCC 8/165







8 kg 670 x 270 x 330 mm (L x W x H)

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TF410B Side Crocking Tester

Side Crocking Tester, is to determine and evaluate the amount of color transferred from the side and edge surface of a belt by rubbing.

Side Crocking Tester can be applied to the surface of a belt that are made from plastics, leather, and textiles made from all fibers in the form of yarn or fabric whether dyed, printed or otherwise colored. With a timing device which is a minimum resolution of 0.1 second.

Specification

- 104 mm Clamp
- Top load weight 3.0 lb.

Included Accessories

- Clamp
- Top load weight

Standards CPSD-SL-81006-MTHD-BELT



Weight Dimensions

10 kg 115 x 100 x 150 mm (L x W x H)

TF411 Electronic Crockmeter

Electronic Crockmeter, is to determine the colour fastness of textiles to dry or wet rubbing. A pinned acrylic sample holder ensures rapid sample mounting and repeatability of results. Crockmeter Fitted with a pre-determined electronic counter for strokes up to 999,999 times.

1 ~ 999,999 times, automatically stop

Specification

. •

- Rubbing head Dia.16 mm
 - 9N +/- 10% Vertical pressure
- Rubbing stroke 104 mm
- Counter
- Included Accessories

•	AATCC Crockmeter Squares	1 box (200pcs)
		2 (1

- Sandpaper 2 (pcs) Ring 2 (Pcs) 1 (Pcs)
- Sampling plate

Sample sink

Standards

ISO 105x12/D02, AATCC 8/165

1 (Pcs)

TF412A Manual Rotary Crockmeter

Rotary Vertical Crockmeter, is to determine the colour fastness of textiles to dry or wet rubbing particularly for printer fabrics. Rotary crockmeter applies 1134 grams of pressure on a 16 mm finger and rotate 1.125 turns clockwise then anti-clockwise. The operating handle is however turned in one direction only.

Specification

- Rubbing head: Dia.16 mm
- Vertical pressure: 1133 g
- Rotation: 405°

Included Accessories

- AATCC Crockmeter Squares 1 box (200pcs)
- Sand paper 2 (pcs)
 - Rings 2 (Pcs)

Standards AATCC 116, ISO 105 X16

G.Weight	6 kg
P.Dimensions	330 x 230 x 240 mm (LxWxH)



Power	
G.Weight	
P.Dimensions	

220 / 110 V 50 / 60 Hz 2 A 14 kg 740 x 260 x 360 mm (L x W x H)



TF412B Motorized Rotary Crockmeter

Motorized Rotary Crockmeter, is to determine the colour fastness of textiles to dry or wet rubbing particularly for printer fabrics. This Rotary crockmeter vertically applies 1134 grams of pressure on a 16 mm finger and rotate 1.125 turns clockwise then anti-clockwise. It is motorized with adjustable speed, automatically stops after set cycles completed, and LCD display.

Specification

- Rubbing head Dia.16 mm
- Vertical pressure 1134 g
- Rotation 1.125 turns

Included Accessories

- AATCC Crockmeter Squares 1 box (200pcs)
- Sand paper 2 (pcs)
- Rings 2 (Pcs)

Standards AATCC 116, ISO 105 X16

TF413 Rubbing Fastness (Gakushin) Tester

Rubbing Fastness (Gakushin) Tester for JIS standards, is for evaluating a material's resistance to rubbing motion. Unit is a six station; bench top machine includes clamps for sample attachment to moving platen and clams for weighted rubbing arm for attachment of rubbing material.

Specification

•	Work st	tation	6
•	pressur	e applied on rubbing finger	2 N
•	Travel I	ength	100 mm
•	Travel s	speed	30 cpm
•	Specim	en	220 x 30 mm
•	Counte	r	1-999,999 times, automatically stops
Star	ndards	JIS L 0849 Type II	

 Power
 220 / 110 V
 50 / 60 Hz
 500 W

 G.Weight
 48 kg

 P.Dimensions
 510 x 490 x 510 mm (L x W x H)

TF414 IULTCS Rubbing Fastness Tester

IULTCS Rubbing Fastness Tester, is designed to carry out a rub fastness test on the surface of leather to determine the amount of 'marring' of the leather surface or the finish and to assess the amount of colour transferring from the sample to the rubbing pad under dry or wet conditions.

500 +/- 25 g 500 +/- 10 g

15 x 15 mm

120 x 25 mm

35 ~ 40 mm

Specifications

•	Rub	bing	finger	

- Loading weight
- Dimension of base of finger
- Specimen
 - Rubbing stroke Speed of rubbing
- Counter

g 40 +/- 2cpm 1-999,999 times, automatically stops

Optional order

٠

White Rubbing wool felts1000pcs / packBlack Rubbing wool felts100pcs / pack

Standards ISO 11640, ISO 17700 Method A, QB/T 2537



Power G.Weight P.Dimensions 220 / 110 V 50 / 60 Hz 27 kg 470 x 410 x 490 mm (L x W x H)





Power	220 / 110 V	50 / 60 Hz 3 A
G.Weight	39 kg	
P.Dimensions	500 x 470 x 6	50 mm (L x W x H)

TF415D Scorch Tester / Sublimation Tester

Scorch Tester (Sublimation Fastness tester), is to determine fabrics ironing color fastness and sublimation color fastness, and dimensional stability under hot dry conditions.

Heating plate temperature and test time are adjustable, fitted with microprocessor temperature controller and the top plate with precisely controlled weight. The independent heating plate ensures controlling test temperature and thickness of sample individually.

Specification

- Large LCD display, convenient setting and operation
- 3 pairs of heating plates, heating temperature of each upper and lower plate can be set individually

Width 140cm, 5 meters / pack

- Each heating plate can be set heating ON or heating OFF
- Timer 0 ~ 240s, automatically stops heating and alarms
- Temp. Range R.T. ~ 230
- Temp. Accuracy +/- 2 Deg. C
- Pressure 4kPa+/-1kPa
- Heating control Individual control for each top and bottom plate
- 3 stations with heating plate dimensions 120 mm x 50 mm

Optional accessories and consumables

- Asbestos cloth
- Cotton adlacent fabric, F02
- Undyed, bleached, unmercerized cotton Width 45", 1 meter
- Wool felt for CF to ironing(hot pressing) 1 meter

Standards ISO 105 P01/X11, AATCC 92/114/117/133, GB/T 5718/6152

TF416A Perspiration Tester

Perspiration Tester, is to determine colour fastness test to water, sea water and perspiration fastness in textiles and sublimation during storage. Perspiration Tester consists of 1 stainless steel frame with 21 acrylic separator plates to hold 20 samples.

Included Accessories

- Base plate 1 set
- Support frame 1 set
- Counterweight 1 set
- Acrylic Plates 21 pcs
- Plastic basins 20 pcs

Standards

 Perspiration
 AATCC 15, EN ISO 105 E04, JIS L0848, BS 1006 E04

 Water
 AATCC 107, EN ISO 105 E01, JIS L0846, BS 1006 E01

 Sea water
 AATCC 106, EN ISO 105 E02, JIS L0847, BS 1006 E02

 G.Weight
 8.5 kg

 P.Dimensions
 470 x 280 x 210 mm (L x W x H)

TF416B Perspiration Tester Kit for AATCC standard

Perspiration Tester Kit, is to determine colour fastness test to water, sea water, perspiration fastness in textiles and sublimation during storage.

Included Accessories

1 set TF416A

 1 set TU320 Precise Lab Incubator (40 liters volume and temp. range up to 200°C, Large LCD)

 Power
 220 / 110 V
 50 / 60 Hz
 70 W

 Weight
 85 kg

 Dimensions
 490 x 580 x 660 mm (L x W x H)



 Power
 220 / 110 V
 50 / 60 Hz
 14 A

 G.Weight
 37 kg

 P.Dimensions
 580 x 470 x 500 mm (L x W x H)





TF416C Perspiration Tester Kit for ISO standard

Perspiration Tester Kit, is to determine colour fastness test to water, sea water, perspiration fastness in textiles and sublimation during storage.

Included Accessories

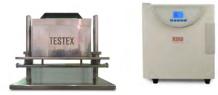
- Base plate 2 sets
- Support frame 2 sets
- Counterweight 1 set
- Acrylic Plates 22 pcs •
- Plastic basins 20 pcs
- 2 sets TU320 Precise Lab Incubator (40 liters volume and temp. range up to 200°C, Large LCD)

70 W

Standards	ISO 105		
Power Weight	220 / 110 V 180 ka	50 / 60 Hz	70 V
Dimensions	490 x 580 x 6	60 mm (L x W	/ x H)







TF417 Gas Fume Chamber

Gas Fume Chamber, is to determine the burnt gas fume color fastness of textiles when exposed to atmospheric oxides of nitrogen derived from the combustion of gases.

A specimen of the textile and the test control fabric are exposed simultaneously to oxides of nitrogen from burnt gas fumes until the control shows a change in color corresponding to that of the standard of fading. The change in color of the specimen is assessed with the standard gray scale for assessing change in color.

Includes testing chamber, burning and control chamber, rotating sample rack, standardized gas burner, test duration timer and exhaust port (to be connected to extractor system). Temperature can be set digitally on the touch panel, and controlled automatically by the closed-loop PLC system.

The unique design of gas fume chamber ensures safety of operate and the chamber, automatic ignition at the start or, if the burner distinguished during the test, maybe in the midnight; gas leakage detection device ensures the igniter will not be activated if gas detected, the fan on the top will start to ensure the safe of operation.

Specification

- Control system
- . Display
- closed-loop controlled, programmable Temperature system

touch panel

PLC

- automatic (start to test or distinguished) Ianition
- Gas leakage protection automatic
- 18 samples can be test simultaneously

AATCC 23, ISO 105-G02, BS EN ISO 105-G02 Standards



Power	220 / 110 V	50 / 60 Hz
G.Weight	119 kg	
P.Dimensions	900 x 820 x 9	00 mm (L x W x H)

TF418D Washing Fastness Tester

Application

Washing Fastness Tester, to determine color fastness to washing or dry cleaning to ISO, BSI, AATCC and Marks & Spencers standards.

The washing fastness tester uses stainless steel rotor to holds washpots on each of four sides and rotates at a constant 40 rpm (+/-2 rpm). Washpots are preheated in appropriate test solution.

Specifications

- Water bath
- Rotation speed 40 ± 2 rpm .
- 1200 ± 50 ml, 6pcs Large canister
- Small canister •
- Temp.
- Running time •
- Steel Balls

Max 95 °C, adjustable adjustable 200pcs

550 ± 50 ml, 6pcs

AATCC 61, ISO105 C06/C10 Standards

1

Optional Standards AATCC 132, ISO 105-D01



Power 380 V 50 Hz 10 A G.Weight 155 kg P.Dimensions 960 x 680 x 1170 mm (L x W x H)

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TF418E Washing Fastness Tester

Washing Fastness Tester, is to determine color fastness to washing or dry cleaning to ISO, BSI, AATCC and Marks & Spencers standards.

The washing fastness tester uses stainless steel rotor to holds washpots on each of four sides and rotates at a constant 40 rpm (+/-2 rpm). Washpots are preheated in appropriate test solution.

TF418 equipped with two baths to offer a maximum combined capacity of 12 ISO washpots and 6 AATCC washpots, and the baths have completely separate controls and drive systems, so they can be used as two independent machines for both ISO and AATCC standards. Opening door, test-finished alarm, etc.

Specifications

Water bath	2
Rotation speed	40 ± 2 rpm
Large canister	1200 ± 50 ml, 6 pcs
Small canister	550 ± 50 ml, 12 pcs
Temp.	Max 95 °C, adjustable
Running time	adjustable
Steel Balls	200 pcs
dards	AATCC 61, ISO 105 C06/C10
onal Standards	AATCC 132, ISO 105-D01
	Rotation speed Large canister Small canister Temp. Running time Steel Balls



Power	380 V	50 Hz	15 A	
G.Weight	211 kg			
P.Dimensions	1140 x 9	900 x 13	20 mm (L x W x H)

TF420 Light Fastness Tester

Light & Weather Fastness Tester, is to determine color fastness to light, weather and light aging of various colored textiles and other materials by simulating both light and dark cycles and nature weather conditions by specimen holders and rack sprays and long-arc-xenon lamp equipped.

Feature

- Light intensity set digitally, real-time monitoring, closed-loop controlled and automatically adjust to meet the different standards (standard 420nm; 340nm, 300~400nm, 300~800nm is offered on request).
- 10.4-inch large color touch panel, a variety of test monitoring modes (animation, digital, graphic) operate easily and clearly.
- All key components such as temp, and humidity sensors, ultrasonic humidifier are imported from USA, Japan, Germany, etc.
- Blackboard Thermometer (BPT), the Standard Blackboard Thermometer (BST), Irradiance detector and samples placed in the same position, a true reflection of the sample under test conditions, the data displayed as figures, charts, curves on the large color screen, no need to stop for observation.
- Detection and wireless transmission using light energy conversion technologies for energy, not the other home power supply.
- Sample holders can be timed independently to achieve different tests simultaneity in the same machine.
- Rated 2500 W long arc xenon lamp simulate daylight spectrum.
- Industrial temperature control (cooling) system offers guickly and smoothly control
- Set of Sample Holders, set of Blue Wool Fabric (L1~L8), Gray Scale (Changing), Arc xenon Lamp and others.

Specifications

- ope				
•	Working modes	to simulate and reinforce the impact of the nature of the measured object, providing light and dark, temperature and humidity, raining and other guantitative indicators.		
•	Light source	2500 W air-cooled long-arc xenon lamp		
•	5	5 1		
•	Temperature range	25 ~ 50 °C, Resolution 0.1 °C		
•	Humidity range	Bright cycle 10 ~ 70% RH		
		Dark cycle 30 ~ 95% RH		
		resolution 0.1%		
•	Test time control	≤ 1000 h		
•	Irradiance	0.80 ~ 2.01 W/m ² @ 420nm (340nm, 300~400nm,		
		300~800nm is offered on request),		
		1 77	Standards	
		Digital set, automatic closed-loop compensation	ISO 105-B02/	B04, AATCC 16.3, GB/T 8427,
٠	Irradiance accuracy	± 0.02 W/m ² @ 420nm	,	B/T 14576, GB/T 15102-2006
•	Sample holder		GD/ 1 0450, GI	B/1 14570, GB/1 15102-2000
	ISO / GB	135 x 45 mm, 16pcs		
	AATCC	130 x 75 mm, 8pcs, samples can be held on both sides	Power	220 V 50 Hz 6.5 kW
•	Potation speed of ca	mple helder E rom	C 14/1 - 1 - 1	2021

Rotation speed of sample holder 5 rpm



Power	220 V	50 Hz	6.5 kV
G.Weight	302 kg		

•	BPT Range	(40 ~ 80) +/- 2 ℃
•	BST Range	(40 ~ 85) +/- 1℃

P.Dimensions 1210 x 870 x 1910 mm (L x W x H)

TF422 Water-cooled Light & Weather Fastness Tester

Water-cooled Light & Weather Fastness Tester (Weatherometer), is to determine the color fastness, aging resistance of textiles, plastics, rubber products or materials by objecting to the simulated conditions of nature weather (daylight, rain, temperature and humidity, etc.). The tester simulates both light and dark cycles and nature weather conditions by rack sprays and water-cooled long-arc-xenon lamp equipped.

Features

- Light intensity set digitally, real-time monitoring, automatically adjust to meet the different standards required for testing the stability of light source (optional 420nm or 300 ~ 400nm band monitoring)
- Blackboard Thermometer (BPT), the Standard Blackboard Thermometer (BST), Irradiance detector and samples placed in the same position, a true reflection of the sample under test conditions, the data displayed as figures, charts, curves on the large color screen, no need to stop for observation.
- Large colorful display, a variety of test monitoring modes (animation, digital, graphics) operate easily and clearly.
- Sample holders can be timed independently to achieve different tests simultaneity in the same machine
- Equipped with Water-cooled rated 4500W long-arc-xenon- lamp, truly simulates the daylight spectrum.
- Professional water circulation system, reduces operating costs.
- Industrial temperature control (cooling) system offers quickly and smoothly control
 Ultrasonic humidifier, professional dehumidification system to ensure accurate and stable
- humidity conditions.
 Equipped with self-circulation system and air filtration system, significantly reducing the
- environmental requirements.
- Cooled by circulating water chillers / water cooling two options to choose from.
- Quality assurance of 1000 hours continuous running.
- Front and back sides spray pattern on samples.

Specifications

- Working modes to simulate and reinforce the impact of the nature of the measured object, providing light, temperature, humidity,
- rain and other quantitative indicators.
- Light source 4500W Water-cooled long-arc xenon lamp
- Average lifetime 1200 h
- Temperature range of test chamber 30 ~ 85 °C +/- 2 °C
- Humidity range of test chamber 20 ~ 95% RH +/- 5% RH
- Test time control 1000 h
- Irradiance range (0.8 ~ 1.400) +/- 0.02 W/m2 @ 420nm Other range can be digitally set and automatic compensation
- Rotation speed of sample holder 1 rpm
- Independent timing of sample holder $\leq 1000 \text{ h}$
- BPT Range 40 ~ 80°C +/- 2 °C
- BST Range 40 ~ 85°C +/- 1 °C

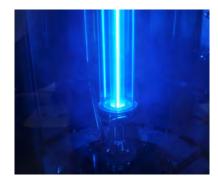
Standards AATCC 16.3, ISO 105-B02/B04, GB/T 8427, GB/T 8430, GB/T 14576, GB/T 15102-2006

Power	380 V	50 Hz	15 kW
FUWEI	J00 V		

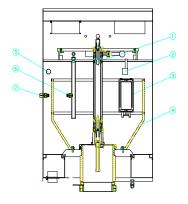
P.Dimensions & G.Weight

1540 x 1240 x 2220 mm (L x W x H)	640 kg
1070 x 800 x 1470 mm (L x W x H)	196 kg
840 x 500 x 820 mm (L x W x H)	68 kg
610 x 370 x 560 mm (L x W x H)	23 kg





The xenon lamp in the center generates the simulated sunlight, and the light filter in the outside filters the other lights to ensure the required light will affect the test samples only; The heating generated by the light tube is cooled by the ultra pure water, which is flowing through the space between the light tube and the light filter.



- ① Long arc xenon lamp
- ② Optical irradiance monitoring sensor
- ③ BST, BPT, test sample holder, etc.
- ④ Drum type sample holder
- ⑤ Temperature and humidity probe
- 6 Spray (rain) front and back
- The sample (back) spray (DEW)

TF421 Light Fastness Tester Tabletop

Tabletop Light Fastness Tester, is a powerful xenon instrument with affordable price for conducting accelerated tests of light fastness and photo stability test.

The TF421 is designed as a tabletop unit with a microprocessor controller for simple operation.

Specification

- Microprocessor control with large LCD displays data and irradiance wave-length curve.
- Air cooled xenon lamp with 1.5KW measure, irradiance(420nm): 1.1w/m2/nm
- Measure and control temperature relative humidity of test chamber, and displayed on large LCD.
- Setting and display the accumulated light energy and exposure time.
- Record the using time of xenon lamp.
- Specimen table with 200 x 280 mm exposure area.

Standards AATCC 16.3 Method 3

Power	220 V	50 Hz	4 KW	
G.Weight	87 kg			
P.Dimensions	970 x 65	50 x 740 i	mm (L x W	' x H)

TF424 UV Accelerated Weathering Tester

Application

UV Accelerated Weathering Tester, reproduces sunlight, rain and dew to simulates the effect of sunlight with fluorescent ultra violet lamps, simulating rain and dew with condensing humidity. To Accelerating age specimens by exposing them to alternating cycles of light and moisture and controlled elevated temperatures.

Specification

- 8 Imported UV Lamps of UVA-340
- PLC control and Touch screen display
- Temp. Range R. T. + 10 ~ 80°C
- Related Humidity 75 ~ 95 %R.H.
- Condensation Temp. 40°C ~ 60°C
- 40W UV fluorescent lamps
- Lifetime of lamps over 1200 hours
- Wavelength
- UVA340 295 ~ 365 nm
- Irradiance 0.89 W/(m² nm)
- Interior is made of SUS304 stainless steel
- Overheat and power overload protection

Standards ASTM G154-16

 Power
 220V
 50Hz

 G.Weight
 172 kg

 P.Dimensions
 1540 x 690 x 1630 mm (L x W x H)





(Pictures for reference only, will update)

Sample Cutting

TF510 Electric Fabric Scissors

Electric Fabric Scissors. Various cutter blades are available and easily replaceable. Electronic Scissors can be used for cutting cloth, card boards, leather, paper boxes, etc.

220 / 110 V 50 / 60 Hz Power Weight 2 kg Dimensions 280 x 220 x 75 mm (L x W x H)



Fabric Rotary Cutter cuts materials with smooth edge by an electric round knife, widely applied to many industries, including clothing, leather, rubber, blankets, carpets, furniture, sofas, umbrella making industry, etc.

It is silent, safe and reliable. The cutter only weights 0.5 kg, has a removable grindstone, and is easy to operate and grind the knife without tools.

Model

- Fabric Rotary Cutter
 - High speed motor for cutting soft and thick fabric, paper, etc.

Specifications

- Dimension of blade Dia. 42 mm
- Cutting thickness 10 mm

Power	220 / 110 V	50 / 60 Hz	30 W
Weight	1 kg		
Dimensions	280 x 220 x 50	0 mm (L x W x H)	





TF512 Swatch Cutter

Swatch Cutter cuts fabric sample (pattern, swatch) of 450 mm cutting length and 100 cutting depth with safe, quick and accurate operating.

Features

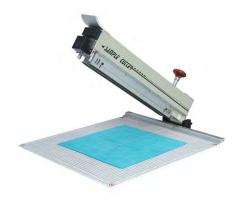
- The lightest swatch cutter in the world (6 kg only).
- Bearing drive circular blade. ٠
- Installation in 3 minutes on any table top.
- Laser alignment cutting.
- Right angle rail for parallel swatch cutting. •
- Scale cutting mat for speedy measurement. •

Specifications

- Cutting blade 1year life / Dia. 80 mm circular blade (pitch 5 mm) 450 mm
- Cutting length • •
 - Scale cutting mat 500*500 mm (double side usable)

Included Accessories

THC	uueu Accessories	
•	Cutting blade	1pcs / 1 year life
•	Scale cutting mat	1pcs / 6 months life



G.Weight P.Dimensions

Cutter 8 kg / Mat 4 kg Cutter 900 x 320 x 160 mm Mat 680 x 660 x 90 mm (L x W x H)

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TF513A/C/D Circular Sample Cutter

Application

Fabric Circular Sample Cutter / GSM Cutter. The circular sample cutter cuts fabric sample in various dimension, such as 100 cm² for GSM, Dia. 140 mm for Martindale test, etc. Cut accurate fabric circular samples with smooth edges by drawing action even difficult materials such as fabric, thin films, tissue paper, and corrugated cardboard and synthetic leather can be cut by the sample cutter conveniently.

The cutting pad is made of porous rubber, which allows the sample cutter to cut into the base with complete safety.

Models

- TF513A Circular Sample Cutter -- Dia. 113 mm / 100 cm² -- For European Fabric Yield System
- TF513C Circular Sample Cutter -- Dia. 38 mm / 12 cm² -- For Martindale Abrasion and Pilling Tester
- TF513D Circular Sample Cutter -- Dia. 140 mm / 154 cm² -- For Martindale Abrasion and Pilling tester

Weight	A: 3 kg, C: 1 kg
Dimensions	A: 175 x 170 x 130 mm (L x W x H)
	C: 115 x 110 x 150 mm (L x W x H)





TF515 Pneumatic Sample Press

Pneumatic Sample Press, a new type of desktop sample press, is to cut samples for testing or other uses. Equipped with 125 mm cylinder, cutting depth of 10 mm and 125 x 125 mm tables. Under the pressure of 100 psi can produce 800kg/f pressure, equipped with a double bond security operation. Can be requested to provide special shape die. Laboratory standards compression air is required.

The cutting dies in most sizes and shapes can be offered on request with drawings.

Specifications

Cutting area: 100 cm²

0.5-0.6 Mpa Air Source G.Weight 84 kg 590 x 490 x 830 mm (L x W x H) P.Dimensions

TF516 Hand Pressing Sample Cutter

Application

Hand Pressing Sample Cutter is used to cut the sample such as textiles, carpets, leather, aluminum foil membrane, plastic, styrofoam, paper and advanced carbon fiber composite materials.

The instrument is simpler and smaller, it can quickly and accurately cut the standard area about 100 square centimeters.

Specifications

Cutting area: 100 cm²

G.Weight 12 kg P.Dimensions 420 x 340 x 420 mm



TF513D



Dyeing & Finishing & Coating & Printing

TD110 Lab Wringer (Padder)

Lab Wringer (Padder), is to evenly squeeze or extract excess liquid from fabric specimens for next procedure of test. This Lab padder / wriner is used for many kinds of textile test to precisely ensure the rest liquid of specimens.

Specifications

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- Working width
- 300 mm Dia. 54 mm, made of neoprene
- Rollers Working speed
- 25 mm/s (9rpm)
- Dead weight loading up to 4.76 kg
- Equipped with liquor tank

Included Accessories

Loading Weights 0.5Lb x1Pc, 1Lb x2Pcs, 2Lb x4Pcs

Power	220 V	50 / 60 Hz	4 A
G.Weight	62 kg		
P.Dimensions	840 x 38	0 x 570 mm (l	_ x W x H)

TD122 Lab Padder

Lab Padder, padding mangle is used for dyeing, finishing and impregnating.

The roller of Lab padder is made of quality NBR; good flexibility ensures long-life; whole machine is made of high- quality stainless steel.

Specifications

- The length of roller: 420 mm
- The Dia. of Roller: Φ 130 mm
- Shore hardness: $70^{\circ} \pm 5^{\circ}$
- Working Speed: 0-18rpm (Adjustable)
- Pressure of air: 0.1~0.6MPa

Models

- TD122V Vertical Lab Padder
- TD122H Horizontal Lab Padder

Power / Air	220 V	50 Hz	
G.Weight	153 kg		
P.Dimensions	1150 x 79	90 x 1500 mm	(L x W x H)

TD130 Infrared Lab Dyeing Machine

Infrared Lab Dyeing Machine is suitable for all fibers and substrates dyeing. The infrared lab dyeing machine produces accurate laboratory sample dyeings with level and reproducible results and accommodates up to 24 positions with a low liquor ratio for synthetic and natural fibers. The fabric sample dyeing machine is common used in the laboratory.

Lab Dyeing Machine is designed to make quick dyeing samples at reduced cost. Fabric testing labs need this sample dyeing machine for sample dyeing, and fabric manufacturers also use it before the mass dyeing process to reduce the risk of getting unexpected dyeing results. Unlike traditional fiber dyeing machine, This dyeing lab equipment moves the beakers in a circular rotation with advanced infrared heating technology eliminating glycol contamination and cumbersome beaker cleaning.

Features

- Three ~ dimensional turning, clockwise and anti-clockwise running makes even dyeing results.
- Beakers are made of quality SUS304 stainless steel, heating fast and level, specially
 pressure-tested beakers offer maximum safety for atmospheric and high-temperature
 dyeing.
- Infrared heating continuously (non-off-type) by quality infrared heaters which 360-degree ring-shape, direct heating on steel beakers, to let dyeing equably and saving 50% electricity.







Specifications

- Temperature range
- Beakers •
- Heating or cooling speed
- Temp. Control accuracy
- Rotation speed
- Liquor Ratio

RT ~ 140 °C 24 pots / 300ml (or other No. of quantity and volume) 0.5 ~ 2.5°C / min 1 °C 0 ~ 50rpm (adjustable)

 $1: 5 \sim 1: 10$

220 V 50 / 60 Hz 7 kW Power G.Weight 155 Kg P.Dimensions 920 x 840 x 1070 mm (L x W x H)

TD300 Lab Magnetic Printer

Lab Magnetic Printer is a magnetic printing machine with printing area of 450 x 300 mm, which is for technology experiment in various natural and synthetic fabrics in lab.

A thin roller is driven by a magnetic block rolling on the silk-screen, printing pressure is displayed digitally and adjustable.

Switzerland Habasit printing belt, Japan Panasonic Frequency conversion, Germany linear slide bearing, China Taiwan Chen-bang Gear-motor, PLC controlled.

Specifications

- Printing area 450 x 300 mm
- Screen frame size 720 x 480 mm
- Magnetic stick Dia. 8, 12, 16, 20, 25mm, 350mm in length(optional) •
- (Each machine is equipped with 1 Dia. 20 mm x 350mm long magnetic stick)
- Drive mode Motor - gear box - toothed belt - magnetic block
- Running towards the left / right then automatic stop; to and fro. Operation mode Frequency conversion adjusts speed, digital display, 0 ~ 8 MPM
- Speed control
- Magnetic Control Adjustable magnetic force, 10 steps, digital display

TD600 Lab Mini-Dryer-Table Type

Lab Mini-dryer, table model, is an excellent laboratory dryer for all drying, setting, baking and thermosoling processes.

This dryer is used for the next procedure of TD400. Floor type dryer (looking is the same as TD610) is offered.

Specifications

- Good heat insulation obtained by high grade material, construction with well dimensioned insulation thickness
- Specially designed pin frame to hold all types of sample fabric in length and/or width
- Sample size up to max. 30 x 40 cm(the effective size of 25 x 35 cm)
- Automatic pin frame transport with pre-selectable dwell times
- Heating temperature up to 250°C
- Audible alarm for end of test
- Even temperature distribution by the air circulation fan
- Suitable for the discontinuous operation in conjunction with TD122 Lab Padder

380 V 50 Hz 6 kW Power G.Weight 173 kg 1400 x 800 x 1020 mm (L x W x H) P.Dimensions

TD610 Lab High Temp. Steamer

Lab High Temperature Steamer, is the same looking as the table type dryer, but equipped with steam generator, thus this steamer can be widely used for drying, curing and steaming, for the use of a wide range of the dyestuff and chemical industry, finishing plants, research institutes and general textile industry.

Specifications

- Temperature range for:
- RT ~ 250°C Electric heating for drying, curing
- Steaming with saturated steam 102 ± 2°C
- High temperature steam processing, electric heating and steam together 100 ~ 250 °C
- Working time is presetable for 1 s ~ 99 min, automatically moving in & out, and alarms
- Special design of biaxially stretched pin frame
- 35 x 40 cm(the effective size of 30 x 35 cm) Max sample size
- Suitable for the discontinuous operation in conjunction with TD122 Lab Padder

Optional order	Steamer
Power	380 V 50 Hz 7 kW
Weight	220 kg
Dimensions	1650 x 780 x 1340 mm (L x W x H)





135 kg

Power

G.Weight

P.Dimensions

220 / 110 V 50 / 60 Hz

1070 x 810 x 610 mm (L x W x H)





(Pictures for reference only, will update)

TD620 Laboratory Tenter

Laboratory Tenter, a flexible continuous pin chain type hot air dryer, is widely used for all where a certain sample length is required in a continuous process. This mini-tenter is designed to simulate the Features of production scale tenter.

Specifications

- Batch working with pin frame (length and width are adjustable) $170 \sim 400 \text{ mm}$
- Continuous working with endless pin chain
- The electric heating power is 19kw, temperature
- Moving speed

20 ~ 220 $\,^{
m oC}$ 0.5 m/min \sim 1.7 m/min

- 3 sets of air circulating fan ensure high drying and thermosoling performance
- Equipped with cloth pressing wheel in the feeding side, and pin-up device to lead fabric to reserve box at the end

Power	380 V 50 Hz 19 kW
Weight	600 kg
Dimensions	2620 x 990 x 1580 mm (L x W x H)

TD630 Lab Pad Steam Range

Lab Pad Steam Range, a combination of padding mangle and steamer, is used to carry out all pad steam processes with saturated steam, offering the shortest time 4 seconds between padder and steaming chamber, to avoid the disturbances and perform very good stability & repeatability on sulphur & vat dyestuff.

Pad steam range consists of padding mangle with two padding rollers, and a steaming chamber with fabric holding capacity of 6m, temperature range 98 \sim 100 $\,^\circ\!C$ for a dwell time 20 \sim 120 seconds.

The steam generator is offered on request.

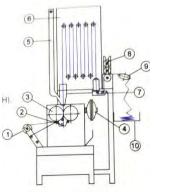
Specifications

Horizontal padder

- Roller size Dia. 125 mm x 300 mm
- Made of NBR rubber with 70°+/- 3 shore hardness
- Pressure 0.1 ~ 0.5mPa, 2 pressure gauges
- Chemical trough capacity 500 ml

Steamer

- Steam Max 0.5mPa
- Steaming Max 6 m, speed control 20 ~ 120 s adjustable inside the steaming chamber
- All guide rollers inside the chamber is Teflon-coated
- Water sealing bath at the outlet for automatic cooling control
- Both steam inlet pipe and water inlet pipe size 1/2 inch are supplied by users







1. Test sample	2. Chemical trough
3. Padding mangle	4. Cylinder
5. Steam outlet	6. Steam chamber
7. Water-sealing bath	8. Winding device
9. Plaiter	10. Fabric receiver
D 200	11/

Power	380 V
G.Weight	489 kg
P.Dimensions	1750 x 980 x 2010 mm (L x W x H)

TT811 Sharp Edge Tester

Sharp Edge Tester, a device to conduct the products sharp edges test, can determine whether accessible edges on toys or other products are likely to cause injury. A pressure-sensitive self-adhesive PTFE tape(to simulate human skin) is attached to a mandrel, which is then rotated for a single 360-degree revolution along the accessible edge being tested. If the tape is cut in half or longer in length (approx. 13 mm), the edge is identified as a hazardous sharp edge, on the other hand, the edge passes the test.

Included Accessories

- Power adapter
- Foot-switch
- Small roll of Teflon Tape(SAINT-GOBAIN)

Optional Accessories:

Teflon Tape(SAINT-GOBAIN)

Standards ASTM F963 4.7, EN 71-1 8.11, 16 CFR 1500.49, ISO 8124-1 5.8, GB 6675 5.8

 Power/Air Source
 220 V
 50 Hz

 G.Weight
 6 Kg

 P.Dimensions
 430 x 310 x 370 mm (L x W x H)



TT812 Sharp Point Tester

Sharp Point Tester. Points are considered as potentially hazardous sharp points if they are sharp, If the points fail the test, they shall be assessed to determine whether they present an unreasonable risk of injury taking into account the foreseeable use of the toy.

Standards	16 CFR 1500.48, ASTM F 963 4.9, EN-71-1 8.12, ISO 8124-1 5.9, GB 6675 A.5.9
Air Source	1.5 A
G.Weight	1 Kg
P.Dimensions	270 x 160 x 190 mm (L x W x H)

TT820 Toy Small Part Tester

Toy Small Part Tester, to define whether an object of toy is small part, intended to minimize the hazards from choking, ingestion, or inhalation to children under 36 months of age created by small objects.

Standards	16 CFR 1501, ASTM F 963 4.6, EN-71-1 8.2, ISO 8124-1 5.2, GB 6675 A.5.2
Power/Air Source	1.5 A
Weight	1.5 Kg

120 x 80 x 50 mm (L x W x H)



Application

Dimensions

Toy Kinetic Energy Tester, To determine the kinetic energy of toy that potentially hazardous projections in toy to the skin that might be caused a child fall on a rigid projection, such as unprotected ends of axles, actuating levers, and decorative features.

Used for testing the kinetic energy of projectile toys, such as testing the speed of bullet discharged from toy guns or catapults. Kinetic energy value is calculated and displayed after discharging of toy through the internal or external testing channel.

Specifications

- Display: 7 digits (0.000001 sec)
- Display range: 0.000001 to 9.999999 sec
- Projectile size:
- Larger then 1 mm diameter
- Smaller then 40 mm diameter (for internal sensor)
- Sensors distance:
- Fixed 100mm (internal sensor)
- Adjustable 40mm 400mm (external sensor)

Standards

ASTM F963 8.15, ISO 8124-1 5.15, GB 6675 A. 5.15







Weight	12 Kg		
Power/Air Source	220 V	50/60 Hz	3A
Dimensions	490 x 4	150 x 300 m	nm

TF117A De Mattia Flexing Tester

De Mattia Flex-cracking Tester, to determine the resistance of rubbers, leather and coated fabrics to the formation and growth of cracks, damages by repeated flexing. Clamp the specimen in grip and flex it constantly, then observe the cracking degree to realize or compare its flex-endurance after flexibility fatigued.

Specification

- Specimens 6 groups
- Grips Distance in open position 70 mm
- Grips Distance in close position 13 mm
- Stroke length 57 mm
- Test frequency 300 cpm
- Counter 1 ~ 9999

Standards EN ISO 7854 Method A, ISO 7854 Method A, GB/T 12586 Method A

 Power
 220 / 110 V
 50 / 60 Hz

 G.Weight
 63 Kg

 P.Dimensions
 570 x 530 x 600mm (L x W x H)

TF117B Schildknecht Flexing Tester

Schildknecht Flexing Tester is designed to determine the resistance of coated fabrics to damage by flexing due to oscillation at 500 times per minute. Accommodates 10 specimens, provided with a resettable electronic counter to record number of cycles.

For testing the Compression-folding (Schildknecht) flex cracking resistance of medical protective clothing, if passed, a further test will go with TF163C Hydrostatic Head Tester, to pass the water penetration under pressure test.

Specification

Counter 1-999999 times

Standards EN 14325, EN ISO 7854 Method B, ISO 7854 Method B, GB/T 12586 Method B

 Power
 220 V
 50 Hz

 G.Weight
 156 Kg

 P.Dimensions
 890 x 810 x 690 mm (L x W x H)

TN138 Respiratory Resistance Tester

Respiratory resistance tester, to measure both the inspiratory and expiratory resistance of respirator and mask type protective equipment under the specified conditions, respiratory resistance tester or breathing resistance tester a professional testing instrument used by the national labor protective equipment inspection agency or mask manufacturers to check the fitness of mask, which will be one of the many mask testing items of mask, specified by national standards.

Specification

- Item
- Flowmeter range
- Flowmeter range accuracy
- Micro-pressure measuring range
- Micromanomet er accuracy
- Pumping capacity of suction
- Ventilation

Tester Technical Parameters 0 L/min \sim 100L/min ±2% -1000Pa \sim 1000Pa 1Pa Not less than 100L / min Constant (85 ± 1) L / min

 Standards
 GB2626-2006, GB/T32610-2016

 Power
 220 V
 50 Hz







TN141 Medical Mask Differential Pressure Tester

Medical mask differential pressure tester, or medical face mask breathability tester is used for the breathability of medical face masks (material).

Medical mask differential pressure tester can test the differential pressure required to draw air through a measured surface area at a constant air flow rate is used to measure the air exchange pressure of the medical face mask material.

Specifications

- Flow meter: 0-10 L/min
- Sensor measuring range: 0-0.5 kPa
- A metallic ring of internal diameter of 25 mm
- Pressure pump: 25 L/min, 85 kPa
- Display screen: 4.3 inch
- External air support: 0.4-0.6 kPa

Standards

EN 14683-2019+AC-2019, ASTM F2100-2019, YY/T0469-2011, YY/T0969-2013

15.2 Kg	
100-240 V	50 Hz-60 Hz
100 W	
315mm x 415	5mm x 305mm (L x W x H)
	100-240 V 100 W

